

Letters Letters Letters

In 5D™ Embroidery Extra



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Software Modules Used: 5D™ Embroidery Extra Software



Lettering is one of the most frequently used tools in our 5D™ Embroidery System! With so many options available through the Letter tab in 5D™ Embroidery, plus additional fonts available through the 5D™ Purchase Center (www.5DPurchaseCenter.com), our designing capabilities are endless. Let's explore some creative techniques using lettering!

Reset All Modules

1. Open 5D™ Embroidery .
2. QuickLink to 5D™ Configure .
3. Click on **Reset All Modules**.
4. Click **OK** to the message, 'All modules will be closed and reset to their default settings'.
5. When you see the message, 'Please confirm that all modules except 5D™ Configure are now closed', ensure no other modules are open in the background. If they are, click on the module(s) in the background, and close after saving any work that might be in progress. Click **OK** to the 'All modules will be closed' message when you have verified all other modules are closed.
6. Click **OK** to the message, 'All modules are now reset to their default settings'.

Resetting the Modules will make all menus appear as they first installed, reset all browse windows to their default size and folder, and make the Control panels and toolbars reset

to default. No changes will be made in custom settings such as MyThreads, MyMachines, or MyHoops.

7. Click **OK** to close 5D™ Configure.

Open 5D™ Embroidery























8. Open the **Desktop icon** . From the Program Folder, open **5D™ Embroidery** .

9. Click **Hoop** . In Hoop Group, select **PFAFF® creative sensation™**. In Hoop Size, select the **360mm x 200mm – creative™ Deluxe Hoop**. Set Orientation to **Vertical**.

10. Click **OK** to Hoop Selection.

Lettering Characteristics

11. Select the **Letter tab** in the Control Panel.

- Most embroiderers create lettering in a straight line or a circle. However, we have many additional line types, called **Envelope Shapes**. They include Horizontal Line , Vertical Line , Circle Clockwise , Circle Counter-clockwise , Full Circle , Double Arch , Diamond , Bridge Convex Down , Bridge Concave Down , Bridge Convex Up , Bridge Concave Up , Arch Over , Arch Under , Fit to Shape , Pennant Right , Pennant Left , Fish , Perspective , Italic , Fit to Straight Line , and Fit to Wavy Line .
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- Lettering also comes with over 120 different fonts in Version 9.4, plus Revue Patchwork UCM 40-120mm XH to download free from www.5DPurchaseCenter.com. Additional font sets are available for purchase through the 5D™ Purchase Center as well.
 - Letters now come in different Stitch Types as well. Let's look at the Fun Category to see the different designators!

Fonts that have specialty fill types which may be adjusted or changed are called Super Fonts, and are signified by abbreviations as follows:

CS – Continuous Satin

CF – Contour Fill

RF – Radial Fill

QS – QuiltStipple Fill

SH – Shape Fill

SP – Spiral Fill

ML – Motif Line

MW – MultiWave Fill

MF – Motif Fill

XH – Crosshatch Fill

Each Super Font has specific options for specialty fills, depending on how the font was created. Not all Super Fonts may be changed to all specialty fill types.

- Other font designators found in the font name include:

UC – Uppercase letters with numbers and punctuation

LC – Lowercase letters with numbers and punctuation

UCM – Uppercase Monograms, no numbers or punctuation

B – Uppercase and lowercase English only with numbers and punctuation

UCB – Uppercase English only with numbers and punctuation


LCB – Lowercase English only with numbers and punctuation

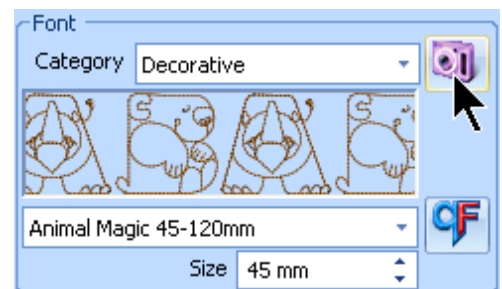
UCMB – Uppercase monograms, English only, no numbers or punctuation



- One more useful thing to know about Fonts: Not all fonts are created equally. Extended, or Full, sets have additional characters for other languages. Basic sets (B) Have only letters, numbers and basic punctuation, depending on their designation as we just saw. Monogram sets have only uppercase letters, plus additional characters as designated when they were designed.

12. Now, you have an overview of Letters and their possibilities. Let's create lettering embroideries using some out-of-the box combinations!

Choosing Line Types in Lettering

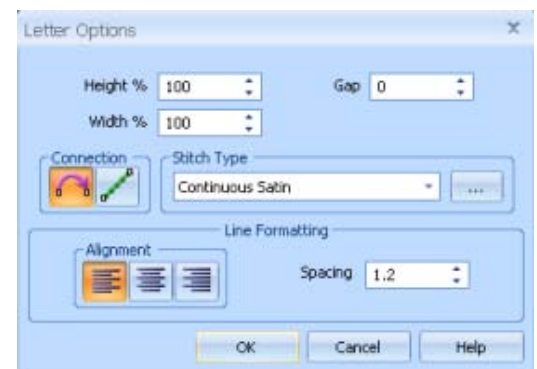
13. In the Letter tab in the Control Panel, click **View Font**  in the Font menu.





14. In the Font Viewer window, the default Category (if you have Reset All Modules in 5D™ Configure) is Decorative.
15. The first visible font is Bremen UC 10-24mm. If you have purchased some additional fonts, you may also see Animal Magic 45-120mm, and Art Nouveau 12-20mm CS. (Remember, CS stands for Continuous Satin, indicating a Super Font with capability of one of twelve pattern fills, satin stitch only, and ability to adjust Density, Stitch Compensation, and also the style and amount of underlay.)
16. Additional fonts appear in alphabetical order, and you can view them by dragging the scrollbar at right, or clicking a font in the list and using the computer keyboard arrow keys.
When viewing the fonts using the keyboard arrows, the font name will change with each selected font in the Font box at the bottom of the Font Viewer window.
17. You can also view different Categories (sets or collections of fonts) by browsing **Up**  or **Down**  in the Category box at the bottom of the Font Viewer. This feature was added in the 9.3 update version (and all later version updates) of the 5D™ Embroidery Software.
18. Browse to the **Modern Category**.
19. Click any font in the **View list**.
20. Click the up or down **keyboard arrows** until **Gaudy 12-30mm CS** is selected, and the name appears in the Font box at the bottom of Font View.
Remember that CS stands for Continuous Satin stitches.
If Gaudy isn't in your list, you may not have the most current update for your 5D™ Embroidery Software!
21. Click **OK** to close Font View and select Gaudy 12-30mm CS.

Set Letter Options

22. Select **12mm** in Font Size.
23. Click **Options** in the Control Panel.
24. In Letter Options, you can change Height or Width by percentage. By changing Height percentage, you can make letters taller or shorter at the standard width at the chosen size. Change Width percentage to make letters wider or narrower without changing the standard height. Leave Height and Width at **100%**, which is default Height



and Width for the selected Size.

25. Gap increases or decreases how far apart the letters will be. Some lettering needs a larger or smaller Gap to make the letters more readable or more personable. Gap can be set to a negative number, so letters overlap each other for a specialty technique! Set Gap at **0**.
26. Connection allows for jump stitches by default, but also for running stitches so you don't have to trim on small, close-set lettering. Select the **Jump Stitch**.
27. Alignment allows you to choose whether multiple lines of lettering line up on left, right or center of the lines. Choose **Left Align** .
28. Spacing increases or decreases the distance between multiple lines of text. Depending on the font, you might want to increase the Spacing setting to keep letters like 'y' from dropping into the line below. Set Spacing at **1.2**.
29. Stitch Type allows you to choose from a pop-up menu of stitch types you can select for change. These are specific to each font, offering only the types of stitches used when the font was designed.
30. Click the drop-down tab on Stitch Type. For Gaudy, only one stitch type option is available, Continuous Satin. Click to close the drop-down menu.
31. Click the **ellipsis**  beside Stitch Type, and the Continuous Column options dialogue box will open.
32. There are 12 stitch patterns that may be used to texturize and break up long satin stitches. Leave Stitch Pattern at **0** so the letters will be satin stitches.
33. Change Density to **3**. Leave Compensation at **0** (Compensation adds width or height to adjust for the push and pull of stitches as they go into the fabric).
34. Select **Edge Walk** underlay, for a running stitch that will tack the fabric to the stabilizer, and provide additional support for your embroidery. Underlay is a personal choice, and you can experiment in using Edgewalk, Zigzag, or both to see which you like best.
35. Click **OK** to Continuous Column.
36. Click **OK** to Letter Options.

Type in the Words and Make the Lettering

37. Click in the **Letters Box**. Type in: “A Stitch in Time” then hold down the **CTRL keyboard key**, and then touch and release the **Enter key** to make a second line for text.

You can add multiple lines of text, and they will all be aligned perfectly!

38. Type in “saves nine!”

39. Click **Horizontal Line**  in Line Type.

40. Click **Apply**.

41. Two lines of lettering will appear in the work area, surrounded by a select box with four control handles.



42. The lines are left justified, and would look better center justified.

Edit Properties in Existing Lettering

43. Place the cursor **inside the text select box** in the work area. The cursor will change to four arrows, and you can **right click** to open a menu.



44. This menu has two choices, Properties and Continuous Satin.

45. Select the **Properties** menu.

The Properties menu allows you to make changes to the typed text, and also adjust Size, Gap, Height or Width proportion, Connection, Alignment, and Line Spacing.



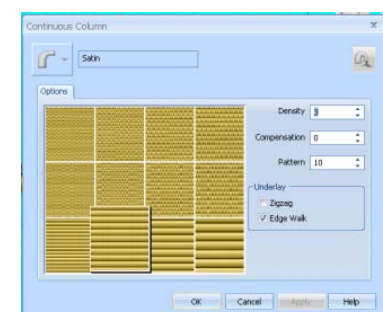
46. In Letter Properties, change Size to **14mm**. Change Alignment to **Center**. Click **OK** to close Letter Properties.

47. Place the **cursor in the text select box** again, and **right click**.

48. Select **Continuous Satin** from the menu.

49. Click on **Pattern 10** (bottom row, second pattern) to create a texture with bands of satin stitch.


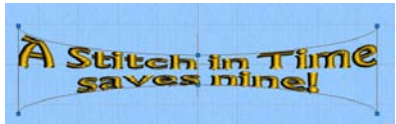



A pattern will help prevent snagging that might occur with





long satin stitches.

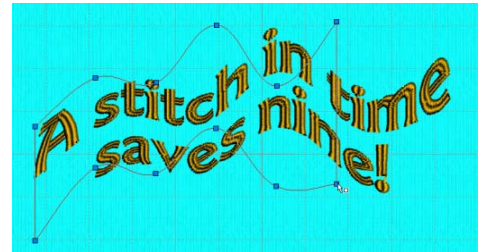
50. Change Density to **3** for better stitch coverage.
51. Leave Compensation at **0**.
52. Place a check by **Edge Walk** for **Underlay**, to place stabilizing stitches around the perimeter of the letters to strengthen and support them.
53. Click **OK** to Continuous Satin to see the new texture and other changes.
54. **Click and drag** the letters to the top of the hoop.

Create Arched Lettering

55. Click **Double Arch**  in the Line Types.
56. Click the **Options** button in the control panel. Click **Center** in the Alignment box. Click **OK**.
57. Click **Apply** in the Control Panel.
58. The new set of letters will appear in the work area surrounded by a select box with six control handles, and shaped like a double arch. 
59. Zoom in to about 60 or 70%, using the integrated **Zoom toolbar** . Click **Overview** in the Control Panel. Drag the Overview box until you can see the lettering in the zoomed view.
60. Because we changed the Alignment in Options, all letters we make from this point will be **Center Aligned** , unless we change the default Options again, or close 5D™ Embroidery.
61. Adjust the shaping of the letters by clicking and dragging individual control handles. When you select a set of letters and adjust with the control handles, the letter size will adjust automatically to fit the select box.
When you adjust letter size through the pop-up Properties menu, the size number will not change in the Control panel as the default size for new sets of lettering.
62. Click **Zoom to Fit**  to see the whole hoop.
63. Click and drag the Double Arch lettering toward the top of the hoop, under the first set of letters.

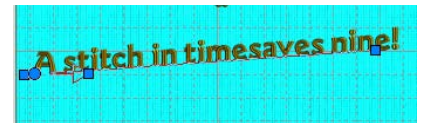
Create Fit to Shape Letters

64. In Line Type, select **Fit to Shape** .
65. Click **Apply** to create the set of letters.
66. This Envelope shape has twelve control handles. Click and drag the handles to adjust the letter shaping. **Zoom in**  as needed to facilitate adjusting the control handles.





Notice you can adjust either of the control handles at the end corners to make the letters taller or shorter, and wider or narrower. However, the control points that sit between the corner points can only be adjusted higher or lower in relation to the baseline.

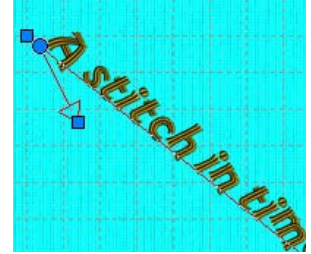
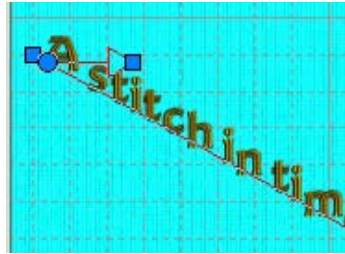
67. Adjust the letters to your liking. Click and drag them up beneath the last lettering you created.



Fit to Straight Line Allows Stepping Letter Angle to Baseline

68. In Line Type, select **Fit to Straight Line** . Place a check in the box by Step, which will allow us to adjust the angle of the letters in relation to the baseline.
69. Click **Apply** in the Control Panel to create the letters. They will come in on a single line, with square control handles for adjusting, and a round handle to set the start point of the first letter.
70. Place the cursor over the baseline until it becomes four arrows. **Right click** and select **Properties** from the pop-up menu. Click at the end of 'time' in the first row of letters.
71. Add a single space with the spacebar on your computer. Click the **DEL key** on your keyboard to remove the second line of lettering. Click **OK** to Letter Properties.
72. You have added a space between the words 'time' and 'saves'.
73. Click and drag the control handle near the right end of the baseline until it sits about twelve grid squares lower than its original placement. When you release the control handle, the letters will slant from upper left to lower right.
74. **Zoom**  the view as needed to adjust the lettering.

75. At the left end of the baseline, where the lettering begins, an additional Step control handle on a short line allows you to change the angle of the lettering in relation to the baseline.



76. **Click and drag** the Stepping handle about two grids down, then release to see how the angle changes in relation to the baseline.

77. **Click and drag** the round circle for the letter start point along the baseline to see how the start point of the stitching moves with the circle.

78. Move the circle back near the left (starting) end of the baseline.

79. Adjust the control handle at the beginning or end of the baseline so the lettering will fit within the stitch area of the hoop, as the design can't be saved if stitches sit outside the hoop area.

80. **Zoom to Fit**  if needed to view the whole hoop.

Fit to Wavy Line Can Follow Curves

81. Click **Fit to Wavy Line** . Click **Apply** in the Control Panel.

82. Fit to Wavy Line works much like Fit to Straight Line, with the exception of how the baseline is shaped with the control points. To make the baseline shorter, you may need to move the interior control points closer together, as they will cause a twist in the baseline if they are out of sequence on the line!



83. Adjust the baseline as desired.



Add a Motif and Snap the Lettering


84. Click the **Motif tab**.

85. In MiniDesign, click the drop-down and select **Home 1**. Select **design 2**, the needle and thread.



86. Click **Options** to the right of MiniDesigns and change Size to **25 mm**. Leave Height and Width at **100%**. Click **OK** to Options.

87. Click **Apply** in MiniDesigns to create the needle and thread.
88. **Click and drag** the MiniDesign to move to an open area in the hoop.
89. Click the **Letters tab**.
90. All the lettering is still 'open' and can be changed at this point. You can move between the Letter, Motif and Frame tabs without losing the options on each page. **Once you select the Design tab or the Edit tab, all elements close and become embroidery elements, and you can only scale, resize, mirror, etc from that point.**
91. Press the **Tab key on your keyboard** to step through all the sets of letters, and you can see they are still open as Lettering.
92. The Text Box still has two lines of lettering, as we opened the Properties from the pop-up menu in the Fit to Straight Line lettering. **When creating letters in Full Circle, two lines of text cause the letters to break, wrapping the first line clockwise around the top of the circle, and the second line counter-clockwise around the bottom of the circle.**
93. Click **Tab** until the needle and thread are selected.
94. In the Line Type, choose **Full Circle** . Ensure the needle and thread design is surrounded by a select box.
95. Change Size to **10**. Click the **Options** button, and change Width to **90%**.
96. Click the **ellipsis**  by Continuous Satin. Change Density to **4**. Change Pattern to **0**. Place a check by **Edge Walk** in Underlay.
97. Click **OK** to Continuous Column.
98. Click **OK** to Options.
99. Click **Apply**.
100. The Lettering does not snap to the selected element!

Lettering cannot SNAP to another element unless it has been closed and has become 'stitches'.
101. Click **Delete**  to remove the last set of letters.
102. Select the **Design tab** to 'set' or finish all the letters and the mini-design element.
103. Select the **Letter tab**, and ensure the needle and thread is selected. Use the keyboard Tab key if needed to select the needle and thread.

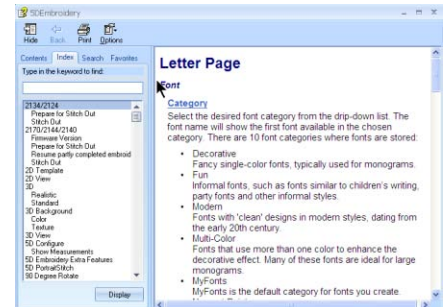


104. Click **Apply**, and the lettering will SNAP to the selected element.

Don't Forget the Help System

105. The Help system contains extended information regarding the Letter tab. While in the Letter tab, click the **Help** button in the Control Panel. Help opens to information about lettering.

You can also select the Index tab in the Help box, and type in specific references such as the word 'Font' for more links to help!




106. **Close**  the Help box.


Finalize the Design

107. Click the **Design tab** in the Control Panel. Press the **Tab keyboard key** to scroll through and fine-tune placement of the embroideries.


Note that all letters and mini-designs are now closed to form stitch elements, and you can no longer right-click to open Properties or stitch change menus!

108. Click **Combine All** .


109. Click **ColorSort**  to reduce the number of color changes in the lettering.

110. Click **Center in Hoop**  to center the combined design side-to-side and top-to-bottom.

Don't Forget to Save your Embroidery!

111. Click **Save As** . Browse to your desired folder. In File Name, type LettersLetters. Ensure Save As Type is **.vp3** to save all special thread information and Notes.

112. Click **Save**.

113. QuickLink to **5D™ Organizer**. **Browse** to the folder containing your embroidery. Click once to select the design in the Thumbnail Preview. Use **Add Trim Commands** , and save in the folder of your choice. When trims have been added, touch F5 to refresh the view of the altered embroidery in 5D™ Organizer.