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**Thank you to Singer USA Education Department and Singer Sourcing for developing this Workbook**

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When this key is pressed “stitching procedure” is shown on LCD Screen

Used to save and recall patterns and letter strings

Used to change thread tension, stitch length, needle position and zigzag width

Used to automatically thread sewing machine

Used to automatically wind a bobbin

Used to pause to take a break during embroidery sewing. The machine may be turned off and the current status will be saved to be used when returning to the machine and turning on the power.
Pattern Category Screens

The XL-5000 has a 256 color 3-D appearance LCD screen. All commands are input with a light touch on the LCD Screen. **Do not press on the screen*.**

The Utility patterns are provided on four different screens.

**Initial Screen**

**First Utility Screen**

Touch the file folder pictograms to access the four “Utility” screens (green).

Touch the numbered arrows to access the “Continuous Pattern” screens (rose).

* If the Pictograms do not line up directly under your finger please refer to the 4-Point Adjustment Procedure detailed on Page 25 of your Instruction Book.
Help Screens

The Help Screens give different types of guidance including Machine Usage, Advice, and Sewing Methods. Each “guidance” category gives detailed information and easy-to-understand graphics.

Turn the machine on and touch anywhere on the screen.

**Stitching Procedure** (Obtain information on “how to sew” methods)

Select STRAIGHT STITCH

Touch advice key

Touch the forward page turning pictogram and it will advance to the next screen. Touch the backward page turning pictogram and it will return to the previous screen.

To return to Utility Pattern screen, touch Return Arrow pictogram.

**Use of sewing machine** (Help in machine set up and for customizing options) (Pink pictograms)

Example: Get information on how to perform “Manual Needle Threading”:

Touch advice key. Advice screen comes up.

Touch pictogram.

Touch hand pictogram. This brings up screen showing “Manual Needle Threading”.

To return to utility pattern screen, touch return arrow pictogram 3x.

**Tips** (Obtain sewing tips) (Yellow pictograms)

Example: For information about “Inadequate Thread Tension”:

Touch advice key. Advice screen comes up.

Touch pictogram.

Touch pictogram.
Pictograms and Color-coded Screens

Now is the time to scroll through the vast assortment of Stitch Patterns available on the XL-5000. The Stitch Selection Process of the XL-5000 is a simple touch of the Pictograms which is all it takes to change groupings and select Stitch Patterns. All Stitch Patterns are grouped by general function and are color-coded for easy identification.

Utility Patterns are grouped on 4 screens and are color-coded green.

Continuous Functional and Decorative Patterns are grouped on 10 screens and are color-coded rose.

Large [X-Y Feed] Decorative Patterns are grouped on 6 screens and are color-coded orange. Note: To access the Large Decorative Patterns first touch the ABC Pictogram.

Small Decorative Patterns are grouped on 4 screens and are color-coded purple.

Alphabet and Numeric Screens are grouped by fonts on 25 screens and are color-coded blue.
Operation Pictograms

Used to vertically invert - turn over - a pattern

Used to mirror image a pattern

Used to select straight stitch and to return quickly to “Utility Stitch Pattern” screen (green).

Used to activate “Large Decorative Pattern” screen (orange) and leads to Small Decorative Patterns and Alphabets

Pattern Elongation. Change visible on screen

Pattern Positioning

Enlarge Size Pictogram

Regular Size Pictogram

Reduce Size Pictogram

Used for sewing with Twin Needle

Used to activate two-color sewing

Used to make single pattern designs sew continuously

Used to clear patterns stored in memory

Used to scroll and check patterns stored in memory
Knee Lift and Screen Brightness

Knee Lift

The knee lift attachment fits into the slot, located at the front of the machine just below the LCD screen. It is used to raise and lower the presser foot, when the presser foot is down.

LCD Screen Brightness / Contrast Adjustment

- Fit the smallest part of the screwdriver into the brightness adjustment hole.
- To increase the screen brightness (make lighter) turn the screwdriver clockwise.
- To decrease the screen brightness (make darker) turn the screwdriver counter clockwise.
Automatic Threading of Standard Sewing Machine:

1. Place the spool of thread and Spool Cap onto the spool pin.

2. Use both hands to pull the thread into the primary thread guide. Note: This thread guide is only used with the horizontal spool pin. With the Thread Exchanger you must use the guides specifically designed for use with the Exchanger.

3. Hold the thread in your right hand and thread the top of the machine along the groove, pull it in the direction of the arrow and cut it with the thread cutter blade A.

4. Lower the presser foot lifter.

5. Touch the thread key.

6. Touch the needle pictogram

7. Touch \[ \text{to return to active screen.} \]
1. Remove thread from thread path.
2. Align mark on handwheel with mark on machine.
3. Raise Presser foot lifter.
4. Open faceplate cover.
5. Place thread and spool cap onto spool pin.
6. Draw thread toward you with both hands.
7. Hold end of thread and guide it through the thread path as shown.
8. Thread needle using automatic needle threading mechanism.
Wind-in-Place™ Bobbin System

The Wind-in-Place Feature is for regular sewing mode only as it winds the bobbin from the top spool directly to the bobbin. The Endless Bobbin Feature is for Embroidery Sewing.

1. Remove the bobbin cover.
2. Load an empty special bobbin and replace the cover.
3. Place the standard A foot on the machine.
4. Thread the machine for standard sewing.
5. Press the bobbin key.
6. Select the amount of thread to be wound on the bobbin.
7. Move the drop feed lever to the right to lower the feed dogs.

Be sure to use the special bobbin shown. The machine cannot perform the automatic bobbin winding without this special bobbin.
8. Hold the thread taut and pass it under the presser foot. Lower the presser foot and pull the thread into the Thread End Retaining Spring.

9. Press the bobbin-winding pictogram on the LCD screen.

Note: If you want to temporarily stop winding the bobbin before automatic completion, press the start/stop button.

10. When the bobbin is filled, the thread will be automatically cut. Remove the remaining thread from the Thread End Retaining Spring.

11. Return the dropped feed dog lever to the left to raise the feed dogs.

Note: Be aware that the appearance of the thread on a bobbin wound with the Wind-in-place Feature will not appear the same as with Manual Bobbin winding. The loose appearance is natural and will cause no sewing problems.
Manual Bobbin Winding

1. Place a spool of thread on the spool pin and place the spool cap securely in place.

2. Draw the thread into the primary thread guide as shown on page 8.

3. Pass the thread over the top of the thread guide.

4. Open the cover of bobbin winding shaft hole. Shaft is stored in accessory box. Place the bobbin on the shaft and fit it into the hole.

5. Pass the thread through the hole in the bobbin.

6. Push the bobbin against the bobbin winding regulator.

7. Start the machine and wind the bobbin.

8. When the bobbin is full, push the bobbin back to the left. Remove it from the shaft and cut the thread.

Note: Although the Manual Bobbin winding System uses Standard 15 Class Bobbins it is suggested that you use genuine Singer Branded Bobbins. Generic Bobbins may be a different size and weight. Additionally, Singer does not endorse the use of pre-loaded cardboard bobbins.
The Thread Exchanger is a Singer Exclusive Feature that may be used Semi-automatically on the Standard Machine side and Fully Automatically on the Embroidery Side of the XL-5000. The Exchanger is a true time saving feature and is easy to use once the procedure for threading and operation is learned. Use this time to learn the correct operation.

1. Install Thread Exchanger....

Installation of the Thread Exchanger is self-evident. Holding the exchanger at a slight angle with the lever pressed, slide the projections into the grooves on the back of the machine.

2. Install Thread Spools and Caps....

Proper installation of the thread spools and spool caps is vital to the Thread Exchanger Operation. Refer to the drawings at the left for proper direction to lead the thread from the spool and proper thread spools to use with the selected thread. Please note that when using the small cross-wound spools sometimes the final 10% of the thread will not reel off smoothly. In this case use the Auxiliary Spool Pin to use up the remaining thread.
Standard Machine Thread Exchanger

3. Stage Left Thread through Mast and through Exchanger Thread Guide A...

Thread the Mast as illustrated

This Specific Thread Guide must be used. Failure to use will cause failure when rewinding.

4. Stage Thread into Automatic Threading Mechanism

This step is vital to the success of the Thread Exchanger. Hold the thread tightly in your right hand as shown and guide the thread with your left hand. Be sure you pull the thread into the holding pinch plate of the threading mechanism before cutting the thread. You will actually feel a light “snap” and may hear a slight “click” when the thread is properly engaged in the Threading Pinch Plate.

5. Automatically Thread Left Spool A and Stage Right Spool B...

Touch Automatic Threading Key

Touch Automatic Threading Pictogram to thread Left Spool A

Stage Right Spool B through Mast, Guide and into Automatic Threading Mechanism holding pinch plate

Upon completion of sewing with Left Thread A, touch pictogram to rewind left spool

Thread right thread B

Rewind right thread B
Tension, Odometer, Needles

How to adjust thread tension (manually):

The sewing machine has an automatic computer controlled thread metering system that calculates and delivers the precise amount of thread for each needle penetration to create the optimum appearance of each stitch. An override control is available to allow for individual modification for specialized effects.

To change thread tension for special-purpose stitching style, follow procedure described below:
Tension shows automatically on the 4 Utility Screens. For all other screens, tension will be shown on a “pop-up” screen accessed by pressing key.

To increase tension touch the + pictogram. To decrease tension touch the pictogram. Tension increases and decreases in 8 steps.

Stitch Count Odometer:

Your sewing machine has an Odometer that keeps track of how many stitches you have sewn in both Standard Mode and Embroidery Mode. A count of 1 is equal to 100,000 stitches. It is a good idea to change needles every 200,000 stitches. Clean your machine every 500,000 stitches. And, have your sewing machine and embroidery unit professionally cleaned and serviced every 3,000,000 stitches.

To access Odometer: touch key then picto then picto.

Sewing Machine Needles:

Singer has developed a new style needle for use in the XL-5000 and other top quality sewing machines. The needles are available in Universal/Round Point Style 2000 and Ball Point Style 2001 in sizes 11/80, 14/90 and 16/100.

Marketed under the Name of “Platinum”, the needles have special features including an eye specially suited for the XL-5000 Automatic Threading System. They also deliver exceptional performance for regular sewing and embroidery Sewing. Additionally, the needles are chromium plated the same as Industrial Needles and will last substantially longer than normal household needles.

The Style 2000 and 2001 Needles will improve sewing in all Household Sewing Machines and Overlock Machines designed to use 15x1RS, HAx1 and 130/705H Household Needles.
Utility Stitches

Turn the machine on and touch anywhere on the Welcome screen to begin. Note: The sewing speed of the XL-5000 is 850 stitches per minute for straight stitch regular sewing.

Exercise #1 – Basting (5,10,15 and 20mm)
1. Select the basting stitch in Folder 1, Row 2, Stitch 6.
2. The default setting for the basting stitch length is 10mm; sew the basting stitch lengthwise down the center of the fabric.
3. Change the basting stitch length to 5mm; sew down the left side of the fabric.
4. Change basting stitch length to 20mm; sew along the right side of the fabric.

The basting stitch aids in securing fabrics in place for various techniques such as, blind hemming, zipper insertion, and quilting. Use it also to gather ruffles or ease sleeve caps. It removes from the fabric easily.

Exercise #2 – Running Quilt Stitch
Every quilter needs the Running Quilt Stitch because this stitch looks just like “hand-sewn” quilting

1. Select the Running Quilt Stitch (Folder 3, Row 2, Stitch 3).
2. Place contrasting thread in the bobbin and thread to color-blend with fabric in the needle. Monofilament Nylon Thread may be used as an alternative however be aware you must manually wind the bobbin and nylon thread may present problems when ironing your completed project.
3. Change stitch length to 3mm. Stitch length available: 2.0, 2.3, 2.5, 3.0, 3.5 and 4.0mm.
4. Sew, with no need to trim between stitches.

Note: Depending upon the fabric, thread combination, it may be necessary to increase the tension setting to make the stitch more prominent looking. Experiment for the best, most desirable appearance.
Buttonholes (18 built-in buttonholes)

Exercise #1 – Large Buttonhole

1. Select Folder 2, Row 1, Buttonhole 3.
2. Place thread in needle and bobbin.
3. Attach buttonhole foot “E” onto machine.
4. Fold the woven fabric in half, cross-wise, placing interfacing between layers.
5. Place fabric between foot and underplate.
6. Place button in buttonhole foot, pushing slide to set buttonhole length; remove button.
7. Lower buttonhole lever and sew.
8. Machine will stop when buttonhole is complete; use thread cutter button to finish.

Special Note: To create a Purl Stitch buttonhole simply press the pictogram. Needle thread and bobbin thread interlace with each other on right side of fabric to create a finished appearance that resembles a hand-sewn buttonhole.

Exercise #2 – Stretch Buttonhole

Repeat the same procedure as in exercise 1, except:
Select the Stretch Buttonhole in Screen 3. Row 1, Buttonhole 5.

Fold the knit fabric in half, cross-wise, placing interfacing between layers of fabric.

* The XL-5000 has 18 built-in buttonhole styles!

Special Note: Simply decreasing the stitch length can change the density of the zigzag stitches on any buttonhole. This will create a satin-looking buttonhole.
Continuous Pattern Sewing

Exercise #1 – Pin Stitch

1. Fabric preparation:
   Fuse or glue a heart-shaped piece of fabric onto a 4”X4” piece of background fabric.

2. Select PIN-STITCH - Continuous Patterns (rose) screen -
   Folder 1, Row 2, Stitch 1.

3. Touch “3-size” pictogram until the smallest size is highlighted.

4. Sew around heart.

   • This is an easy way to create a “hand-sewn look” to an appliqué, and is very popular with quilters and crafters.

Exercise #2 – Cross Stitch Patterns

1. Replace standard presser foot with Decorative stitch foot (T).

2. Select Cross Stitch design - Continuous Patterns (rose) screen -
   Folder 10, Stitch 3. Press to vertically invert pattern.

3. Sew the Cross Stitch design on the left side of the fabric.

4. Select Cross Stitch design - Continuous Patterns (rose) screen -
   Folder 5, Stitch 5.

5. Place the left edge of the “T” foot along the edge of the first row of stitches already sewn. Sew the next row.

6. Select Cross Stitch design - Continuous Patterns (rose) screen -
   Folder 10, Stitch 3.

7. Sew the Cross Stitch design on the opposite side of the center stitches.

Use various combinations of the beautiful Cross Stitch designs together, and create magnificent borders on garments, table linens, pillowcases, and more.
Large and Small Decorative Patterns

Large Decorative Patterns

Exercise #1 – Balance A Pattern

1. Replace the standard presser foot with the Decorative stitch foot (T).

2. It is recommended that a test sample of a chosen pattern be sewn using the same fabric, interfacing and thread before sewing on the finished project. **Note:** Interfacing is very important when sewing decorative patterns, especially the large patterns.

3. The Balancing Pictogram is the “STAR”, located in the upper right corner of the LCD screen.

4. Touch the “STAR” Pictogram.

5. Begin to sew a complete trial pattern.

6. The star should line up evenly.

7. If adjustment needs to be made, select the height or the width with either the minus or the plus.

Exercise #2 – New 25mm Border Stitches

Several additional new 25mm border stitches are built into the XL-5000.

1. Touch the ABC Pictogram, located in the lower right corner of the LCD screen – Large Decorative Patterns (orange) screen

2. Select Folder 4, Row 2, Stitch 4 (Daisy).

3. Touch the Continuous key.

4. Sew down the left side of the fabric lengthwise.

5. Touch the Trash Can Pictogram to clear the design.

6. Select Folder 4, Row 2, Stitch 5.

7. Select Folder 4, Row 2, Stitch 5 again; press the Turn-over Pictogram.

8. Touch the Continuous Pictogram.

Small Decorative Stitches

Select Folder 7 - (Purple screen)

Exercise #1 - How To Elongate A Stitch

1. Touch and hold the Trashcan Pictogram, to delete all patterns from the screen.
2. Touch the ABC Pictogram in the lower right of the LCD screen.
3. Select the Crescent Stitch, Folder 7, Row 1, Stitch 1.
4. Select the Crescent Stitch again.
5. Touch the 1X Pictogram until it reads “2X”.
6. Touch the Crescent Stitch, and then touch 1X Pictogram until it reads “3X”.
7. Touch the Crescent Stitch, and then touch 1X icon until it reads “4X”.
8. Touch the Crescent Stitch, and then touch 1X icon until it reads “5X”.
9. Touch the Crescent Stitch, and then touch 1X icon until it reads 10X.
10. Sew lengthwise along the fabric.

*Design is elongated without losing density.

Helpful Note: The density may be fine tuned with use of the Length Control. Length Control and Thread Tension are available on a “pop-up” screen accessed by touching the Key.

It is mathematically possible to modify each stitch pattern in Folder 7 a total of 120 different ways, including making every other pattern an alternating color. For two color sewing, thread the machine with alternate color threads on the top and in the bobbin, select the desired pattern, modify it as desired, touch the 2-color sewing pictogram and sew. Have fun!
There are five styles of built-in alphabet.

Turn machine on, and touch anywhere on the screen.

Touch ABC pictogram to access alphabet screens (Pictogram is located in the lower right hand corner of the LCD screen).

Exercise #1 – How To Use The Built-In Block Alphabet

1. Touch ABC arrow pictogram in the upper left hand corner of the screen.

2. To view the five alphabets – repeat touching the ABC arrow pictogram. Select the Block alphabet.

3. The folder pictograms in the alphabet screen will show:

<table>
<thead>
<tr>
<th>Upper case Letters</th>
<th>Lower case Letters</th>
<th>Numbers Punctuations</th>
<th>Foreign Upper case</th>
<th>Foreign Lower case</th>
</tr>
</thead>
</table>

4. Program the word SINGER

5. At this point if everything is to your liking you may start sewing.

6. To delete the last letter entered, touch the Trash Can.

   Use “eyeglass” pictograms to move the vertical orange cursor in the top screen.

* To delete a letter in the middle of text or a word.
  Place the cursor to the right of the letter to be deleted.
  Touch the Trash Can.

* To insert a letter in the middle of text.
  Place the cursor between the letters, where the letter is to be inserted.
MEMORY IN STANDARD SEWING MACHINE

There are 20 Memory Folders available within the machine when in the standard sewing mode. Each one of the folders holds up to 120 entries.

To save a stitch sequence:

1. Touch the Operation Key.
2. Touch the folder where the stitch sequence is to be stored.
3. Touch the Pictogram. **Wait until the memorizing is complete**
4. Touch the Pictogram to return to previous screen.

To retrieve a stitch sequence:

1. Turn machine on and touch Welcome Screen.
2. Touch the Pictogram
3. Touch the Operation Key.
4. Touch the folder in which the stitch sequence was saved.
5. Touch the Pictogram.
6. Touch OK.
Categories of Built-in Embroideries

1) 3 Extra-Large Floral Arrangement Designs
2) 2 Large Floral Border Designs with Matching Corners [Total 4 Designs]
   (Folder 10) (Green screen)
3) 6 Long Floral Borders
   (Folder 11) (Green screen)
   (Folders 1, 2, & 3) (Green screen)
4) 35 Various Large Individual Floral Designs
5) (Folders 4, 5, 6, 7, 8 & 9) (Green screen) 6 Floral Corners Borders matching screen 12 Borders
   (Folder 12) (Green screen)
6) 43 Small Individual Floral Designs
   (Folders 13, 14, 15, 16, & 17) (Green screen)

7) Extra Large Monograms
   2 Sizes in 2 Fonts & 16 Floral Designs (Pink screen)
   (Same as XL-1000 Memory Card #VI)
8) Traditional Monograms
   2 Sizes in 2 or 3 letters & 15 Frames (Pink screen)
   (Same as XL-100 Memory Card #12)

\[
\begin{align*}
A & \quad B & \quad C & \quad D & \quad E & \quad F & \quad G & \quad H & \quad I & \quad J & \quad K \\
L & \quad M & \quad N & \quad O & \quad P & \quad Q & \quad R & \quad S & \quad T & \quad U & \quad V & \quad W & \quad X & \quad Y & \quad Z
\end{align*}
\]

9) Block Lettering [size in 1 degree increments 7 ~ 60mm]
   (Blue screen)
10) Script Lettering [size in 1 degree increments 7 ~ 60mm]
    (Blue screen)
11) Euro-style Lettering [sizes 15-20-30-40-50mm] (Blue screen)

\[
\begin{align*}
A & \quad B & \quad C & \quad D & \quad E & \quad F & \quad G & \quad H & \quad I & \quad J & \quad K & \quad L & \quad M & \quad N & \quad O & \quad P & \quad Q & \quad R & \quad S & \quad T & \quad U & \quad V & \quad W & \quad X & \quad Y & \quad Z
\end{align*}
\]

12) Grids (help in placement) (Orange screen)

Note: Grids are actually stitch data so delete them before sewing your design.
Automatic Thread Exchanger™

When the sewing machine is set up in the automatic rewind mode, the Automatic Thread Exchanger™ automatically rewinds the Color 1 upon completion of stitching.

Color 2, already set up on the Automatic Thread Exchanger™, will automatically thread itself and begin stitching.

While Color 2 is stitching, Color 3 may now be set up on the Automatic Thread Exchanger™, where Color 1 was.

Color 2 will automatically rewind when stitching has completed, and automatically thread Color 3.

While Color 3 is stitching, Color 4 can be set up in the place where Color 2 was.

This procedure can be used for the entire embroidery design.

Automatic threading of the machine during embroidery.
See page 13 and 14 for threading and basic semi-automatic operation of the Thread Exchanger.

At the time of threading both spools or before sewing is complete with first color “A”, to achieve Fully Automatic Thread Exchange, you must touch pictogram.

After machine has exchanged Spool “A” for Spool “B” and has started to sew, remove used Spool A and replace it with next color (step).

Stage thread and touch pictogram for Auto Thread Exchange.

If you wish to manually perform threading or operate the Thread Exchanger semi-automatically, touch pictogram.
Endless Bobbin™

Automatic rewinding of bobbin during embroidery

How the Endless Bobbin Works

* When the bobbin has run out of thread while machine is engaged in sewing an embroidery pattern, the machine will reposition the embroidery frame and will start the Endless Automatic Bobbin Winding Sequence.

* After completion of automatic bobbin winding, the machine will automatically re-start sewing the embroidery pattern.

* Be sure to use bobbin illustrated. If the special bobbin is not used, machine cannot perform Endless auto bobbin winding.
* Use Bobbin Fill Thread of 90 ~ 100 weight. A large parallel wound spool such as Sulky Bobbin Thread is recommended. Heavier weight thread will not wind correctly.

How to set up for Endless Bobbin Winding:

1. Install an empty bobbin and close the bobbin case cover. Be sure to use the special bobbins provided for this operation, not the standard bobbin.

2. Touch the Operation Key.

3. Select the amount of thread to be wound on the bobbin.

4. Open the cover of the Endless Bobbin™ compartment and open the thread retaining plate cover.

   Thread retaining plate cover - A

5. Place the spool of bobbin fill thread onto the spool pin.
6. Thread the first thread guide.

7. Install the Bobbin Winder Threading guide

8. Follow the Threading Track around all the turns and thread points [1] through [5]. At numbered positions 1 ~ 3 lightly pull thread to assure it slips into position. At Position 4 pull thread slightly harder to assure thread passes under final spring.

9. Cut thread at the cutter blade 5, by drawing the thread toward you.

10. Remove the Threading Guide and close thread retaining cover plate.

11. Touch Pictogram located directly above Bobbin Winding Operation on LCD Screen.

12. Upon completion of winding of bobbin, bobbin thread is automatically cut. You can now start embroidery with no additional preparation. When bobbin thread runs out during embroidery, the bobbin will re-thread itself.

It is vitally important that you keep the Endless Bobbin Area Clean of lint and thread scraps. Lint and short cut pieces of thread can be drawn into the Endless Bobbin threading path and become lodged under the Pinch Plate Spring Finger that threads the bobbin. In the event that the Endless Bobbin malfunctions, check the threading path and if necessary clean out thread and debris from under the Pinch Plate Spring.
Pictograms on the Embroidery Screen

Used to activate the layout screen, or return to layout screen.

Used to combine patterns in a Single or Multiple Hooping.

Used to delete an individual pattern or letter. Clears all entered designs or letters when pictogram is touched for 5 seconds or longer.

Used to move the embroidery carriage to check sewing area.

Used to add a Layout Grid that aids in design placement.

Used to review design elements, which display across the top of the screen. Also used to select a particular design element to be edited.

Used to set letter orientation to read across (as normal), or vertically with letters aligned one above the other.

Used to activate “Kern Function” to decrease interval between Kern Combinations of letters such as A F J L P T V W Y.

Used to change letter size.

Used to divide letters into groups such as next line of text.

Used to set orientation of lettering from reading and sewing Portrait or Landscape within the hoop.

Used to finish entering design elements and editing, and prepare to sew.

Used to access the Move Carriage function and Correction Function. Correction Function is used for backing up/advancing stitches.
The Quantum XL-5000 uses Smart Media Cards to store embroidery designs. A large selection of Cards is available with more available in subsequent months.

Open the card cover.
Hold the embroidery card with its notched edge to the lower left.
Insert the card.

Be sure to close the door or the embroidery card will not work.

Touch \[ \text{Pictogram} \].

Designs and patterns stored on the embroidery cards will appear on the LCD screen.

The contents of the card can be viewed by touching the Pictograms.
Combination Embroidery is used for arranging design elements to be sewn within a single hooping. The sewing field size of the hoop area in Combination Embroidery is 140 x 240mm (approximately 5.5 x 9.5 inches).

**Machine Set Up:**
1. Turn machine off.
2. Remove bed from standard machine.
3. Install the embroidery unit.
4. Slide lever (at the front of embroidery unit) to the right, until it “clicks”.
5. Remove standard presser foot and shank.
6. Attach the “J” embroidery foot.
7. Turn machine on.
8. Touch anywhere on the Welcome Screen
9. Touch OK to position the hoop.

**Built-in Embroidery Designs:**
The XL-5000 has 99 built-in Floral designs. These are stored in numbered folders and displayed on the machine screen.

1. Folder #1 that automatically opens shows a very large Floral Arrangement. Touch Folder #2, then Folder #3. To continue viewing the built-in designs, touch the #4 Arrow Pictogram in the upper right area of the screen.

2. Continue moving through the design patterns by touching the numbered folders, up to Folder #17. To select a design from Folders #1 through #10, touch the small “button”, located within the box of the selected design. To select a design from Folders #13 through #17, touch the design itself on screen.

**CREATING A DESIGN LAYOUT**
1. Touch either Arrow Key (located in upper left/right areas of screen) to move to Folder #14.

2. Touch the Flower in Row 1, Pattern 1.

3. The design appears on the top of the screen. To Enter the design and access the Editing screen, touch the Pictogram

4. The Editing functions are now displayed on screen:
   - Hoop icon, Position/Zoom/Rotate, Design Sizing, Letter Sizing, and Mirror Image
5. The Hoop Pictogram allows the choice of Hoop Size (large, medium or small), Multi-Hoop or Continuous Hoop. (Touching this Pictogram automatically selects the default large hoop size.

6. Return to the Edit screen by touching the Pictogram.

7. Touch Pictogram.

8. The 8 Directional Arrows can be used to move the design position, a touch at a time.

   Note: The design may be quickly moved to the extreme distance from center, by touching the Pictogram (located just below the down-arrow key), and then touching the desired direction arrow.

   The Pictogram will return the design to the center.

9. Move the design down, just below the center area of the screen.

10. To rotate the design, touch the Rotate Pictogram.

11. Designs can be rotated in increments of 100 degrees, 10 degrees and/or 1 degree. Rotate the design 12 degrees. (touch: 10 + 2 x 1 degrees), then touch the Pictogram.

12. Return to the Edit screen with the Pictogram.
13. Touch the Pictogram (center picto in Edit column).

14. This screen allows the size of the design to increase up to 120%, or decrease to 90%, by touching a specific % Pictogram on screen.

15. Touch the 110% Pictogram.  
   Note: The change can be viewed on screen.  
   By touching the minus (-) or plus (+), the design size can be changed in increments of 1%.  
   Increase the design size to read 114%.

16. Touch the Pictogram to return to the Edit screen.

17. Touch Pictogram.

18. To try the Zoom function, Touch the Zoom Pictogram.  
   Touch the x2, and then touch the design on screen to zoom in on a selected area. Note, that in the Zoom Function Mode the stitches are converted to “Needle Penetration Dots.” This is highly useful when joining sections or blocks of designs. Return to the regular-size screen by pressing the x1.

19. Touch the Pictogram to return to Edit screen.

**COMBINING DESIGN WITH LETTERING**

1. Touch the Pictogram to introduce a new design to the layout.

2. Touch either Arrow Pictogram, located in upper left/right areas of the screen.  
   Continue touching the arrow pictogram until the Block Alphabet is on screen (blue screen).

3. Spell out by touching the word ‘Singer’ (one letter at a time) using upper and lower case letters.
4. Touch the Pictogram to Enter.

**EDITING LETTERING**

1. Touch the Letter-sizing Pictogram in the Editing column.

   Note: Text can be easily increased or decreased in size by increments of 5mm. When using the minus (-) or plus (+) pictogram (located on upper screen, above sizing pictograms), text size can be changed in increments of 1 mm from 7mm – 60mm.

2. The Pictogram (below the size pictos) spaces letters closer together or farther apart. Press the minus (-) pictogram two times. Note how the letters change position on screen.

3. Increase the size of the letters to 32mm.

4. Touch the Grid Pictogram. The Grid is specially helpful when positioning several lines of text.

5. Return to the Edit screen with the Pictogram.

6. Touch the Pictogram.

7. Move the word ‘Singer’ to the upper area of the screen, above the flower.
8. Return to Edit screen with the Pictogram.

9. Touch the Pictogram to introduce a new design element.

10. Touch the Pictogram, located to the left of the Smart Card Pictogram.

This will put a “break” between the word “Singer” and the next line of text to be entered, in order that they may be edited as 2 separate groups of stitches.

11. Touch the letter Pictograms on screen to spell out “Quantum”

12. Touch the Pictogram to Enter.

13. The word is highlighted, so it may now be edited. Touch the Letter-sizing Pictogram and change the size to 20 mm.

14. Touch the ‘minus’ Pictogram (just below the size Pictograms) 2 times, to bring the letters closer together.

15. Touch the Pictogram to go back to the Edit screen.

16. Touch the Pictogram to move letters into place, just below the flower.

17. Touch the Pictogram to return to Edit screen.

18. Touch to enter a new design element.

19. Touch the Pictogram, located to the left of the Smart Card icon.

This will put a “break” between the word “Quantum” and the next line of text to be entered, in order that they may be edited as 2 separated groups of stitches.

20. Now touch the letter Pictograms on screen to spell out “XL-5000”.

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Combination Embroidery

21. Touch the Pictogram to Enter.

22. The word is highlighted, so it may now be edited. Touch the Letter-sizing Pictogram and change the size to 18mm.

23. Touch the ‘minus’ Pictogram (just below the size pictos) 2 times, to bring the letters closer together.

24. Touch the Pictogram to go back to the Edit screen.

25. Touch the Pictogram; then position “XL-5000” into place, just below the word “Quantum”.

26. Touch Pictogram to return to Edit screen.

DELETING, ADDING and/or EDITING SELECTED DESIGN

Once they are selected, the design elements display across the top area of the screen. There are 2 “eyeglasses” Pictograms, located near the bottom of the screen: one with a left-arrow and one with a right-arrow. The “eyeglass” Pictograms are used to move the orange-colored vertical cursor back and forth through the display area on screen. The cursor is placed (in the upper screen area) just to the right of the particular design element that is to be edited, added or deleted.

1. To Delete a design element, place the cursor just to the right of the element to be deleted. Then, touch the pictogram to delete the design.

2. To Add a design element, place the cursor in the place where the design is to be introduced. Touch the Pictogram, and then select a new design. It will automatically be placed in the designated area.
3. To **Edit** a design element, place the cursor to the immediate right of the design to be edited, as it appears in the display area of the upper screen. This designated element will now be highlighted within the “hoop” area on screen. Make desired changes and then touch the Pictogram to return to the previous screen.

**Note:** This function can be used to select a given design to sew next.

**MOVING THROUGH A DESIGN**
This function may be used to restart embroidery from a position at which thread has broken, or to move through a design to a selected area.

1. Stop the machine. Raise the needle and lift the presser foot.

2. Touch the Pictogram.

3. Should thread breakage occur, it is possible to move the needle and re-stitch the area.

4. To change the needle position, touch located to the left and right of the Pictogram. Each touch of the minus (-) Pictogram will back up the needle position, in increments of 10 stitches. The plus (+) is fixed and will always move the needle forward one (1) stitch at a time.

**Note:** The 10-stitch increment is a default setting, but can be changed as desired, in the Options Screens (see instruction manual).

5. To select a portion of the design to sew:
   - Touch the Pictogram. Move forward or backward through the entire design element by percentage. To move forward through the design, touch the (+) Pictogram. To move backward through the design, touch the (-). The ratio of % -of-stitches is with respect to the total number of stitches in the pattern.
   - To return the needle position to the beginning of the current design, touch the Pictogram.
Combination Embroidery

- Touch , to return to the previous screen.
- Lower the embroidery foot and resume sewing.

**PREPARING TO SEW THE COMBINATION DESIGN**

1. Place the fabric in the embroidery hoop, and then place the hoop onto the embroidery unit.

2. Touch the Pictogram, to finish combining designs and prepare to sew.

3. To view the entire design layout, touch the Pictogram.

4. To review the order of the color changes, touch the Pictogram.

5. Thread the left spool pin of the Automatic Thread Exchanger™ with color #1 [light yellow], making sure the spool turns in a “clockwise” direction.

   Touch the Key for Automatic Threading of the needle.

6. “Stage” the right spool pin of the Automatic Thread Exchanger™ with color #2 [gold].

7. Touch the Pictogram, to engage the Thread Exchanger.

8. After color #1 is finished, the Automatic Thread Exchanger™ will rewind color #1, automatically thread color #2 and begin to sew.

9. While color #2 is sewing, remove color #1 and replace it with color #3 [green]. Stage the green thread.

10. Touch the Pictogram, to engage the Thread Exchanger.

11. After color #2 is finished, the Automatic Thread Exchanger™ will rewind color #2, automatically thread color #3 and begin to sew.

   Note: Continue changing thread colors for each segment of the design and touching the spool direction Pictograms until the pattern is completed.
12. While color #3 is sewing the last part of the flower, stage the Automatic Thread Exchanger™ with color #4 [red] for the text.

13. Touch  then touch  .

14. Touch Pictogram – touch start button to sew the text from the design layout in red.

POSTPONE SEWING/POWER OFF FUNCTION

This function is used to temporarily save your layout and sewing in the exact position it was in before activating the Postpone Function.

Before turning power off:

1. Touch the key in the lower right corner.

2. Touch the OK key.

3. Do not turn off power to machine while design is being saved.

4. When machine is finished saving the design, touch OK.

To retrieve the design:

1. Turn machine on.

2. Touch LCD screen.

3. Touch OK Pictogram to position the hoop.

4. When design appears on screen, touch the OK Pictogram.

5. Do not turn off the machine while it is retrieving stitch data.

6. The design now appears on screen, ready to start sewing in the exact position you were in before activating the Postpone Function.
To Achieve Best Embroidery Sewing Results:

Fabric, Thread and needle:

- Always use an interfacing when embroidering. Failure to use interfacing will result in steps of the design not aligning with other steps. For best results use an iron-on interfacing fused to the wrong side of the fabric. Iron temperature should be set low to medium.

- The built-in designs and the designs on the XL-5000 Embroidery Cards are digitized to be sewn with #40 weight Rayon thread. When enlarging the design to 110 - 120% you may wish to use #30 as an alternative.

- Always use Bobbin Fill Thread in your bobbin. Bobbin fill is generally a 90 to 110 weight polyester thread. For the Endless Bobbin, Singer strongly recommends a large parallel wound spool such as the large Sulky Bobbin Fill Thread.

- Always use Singer Brand Needles, Style 2000 in size 11/80 or 14/90 when Embroidering. These needles are designed to work best with the Singer Exclusive Thread Exchanger.

Types of Embroidery Frames:

- Always use a frame appropriate to the size of embroidery you wish to sew.

<table>
<thead>
<tr>
<th>Frame Type</th>
<th>Description</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large Frame Embroidery</td>
<td>Range is 140 mm x 240 mm. It is used for large patterns, combined patterns and Multiple Hoop Embroidery.</td>
<td></td>
</tr>
<tr>
<td>Medium Frame Embroidery</td>
<td>Range is 114 mm x 114 mm. It is used for single patterns.</td>
<td></td>
</tr>
<tr>
<td>Small Frame Embroidery</td>
<td>Range is 55mm x 55 mm. It is used for small embroideries such as a name on a handkerchief.</td>
<td></td>
</tr>
</tbody>
</table>
Multiple Hoop Embroidery

Large design layouts are easily accomplished with the Multiple-Hoop function of the XL-5000. Design layouts too large to fit within a single hoop can be sewn in sections, while maintaining perfect alignment and placement. The joining of the sections is smooth, simple and accurate using the X-Y Axis feature. The total sewing field area of the basic Multiple-Hoop layout is 250 x 450mm, or approximately 10"x 18". It is also possible to build design layouts even larger than the 10"x 18" area of the Multiple-Hoop layout, using the X-Y Axis feature as a placement tool.

Note: The Layout Screen of the XL-5000 has a huge capacity and ability to layout and sew the most complicated of designs whether they are a combination of individual designs and letters or one very large multiple color design. There is however a limitation for one layout of 180,000 stitches and 128 colors. If your design has more than 180,000 stitches or more than 128 colors, divide the design into 2 or more layout segments. You can easily join 2 or more layouts with the X-Y Feature.

EXERCISE IN USING MULTIPLE HOOP EMBROIDERY

FABRIC PREPARATION
1. A design layout large enough to fill all 4 quadrants on the sewing machine screen requires a fabric at least 15x 25 inches [38 x 63 cm].
2. As appropriate for the selected fabric, apply stabilizer(s) following manufacturer’s instructions.
3. Using a fabric marking pen/pencil and a ruler with 90 degree angle markings, draw a long horizontal line across the center of the fabric.
4. Draw a long vertical line to intersect the horizontal line at an accurate 90 degree angle.

PREPARING THE SEWING MACHINE
1. While sewing machine is off, install the embroidery unit.
2. Attach the embroidery foot, turn machine on.
3. Touch anywhere on screen to activate.
4. Touch “OK” for carriage to move and center itself.

BUILDING THE DESIGN LAYOUT - LETTERS
1. Touch the Right Arrow Pictogram at top right of screen 7 times, to select the Block Lettering folder (letters appear in blue-colored boxes).
2. Enter the word S-I-N-G-E-R
3. Touch the Pictogram to arrange letters vertically.
4. Touch Pictogram to change the orientation between portrait and landscape of the letters in the hoop.
Multiple Hoop Embroidery


6. To go to Hoop selection screen, touch (top right Pictogram).

7. Touch to enter the Multiple-hoop screen.

8. Touch to return to the Edit screen.

9. Touch to access the Letter Sizing function.

10. Touch the 50 Pictogram to select 50 mm lettering.

11. Using the Pictogram. Press (+) to increase letter size to 56mm.

12. Touch to exit Letter Sizing.

13. Touch to continue on and add the borders.

BUILDING THE DESIGN LAYOUT – FLORAL BORDERS

1. Continue repeatedly touching the Right Arrow Pictogram at top right of screen. Select Folder #11 - Floral Borders.

2. Select Border #3 by touching the “button” (just below the border).

3. Touch Pictogram (border now appears in center of screen).

4. To move border, touch the Pictogram.

5. Use left arrow picto to move border to the left in 23 moves. Use up arrow key to move border up, until bottom of the border touches the X-axis on screen.
Multiple Hoop Embroidery

6. To check placement, touch Pictogram. Touch zoom.

7. Touch the border where it meets the axis, to check placement.

8. Touch the Pictogram to access the Positioning Arrows. Use the arrow pictograms to move the border to line up on the X-axis line (allow the image to slightly overlap the line, to allow for pull compensation during embroidery).

9. Touch Pictogram and zoom to return to full screen.

10. Touch to return to the Edit Screen.

11. Touch to combine with another border.

1. Select Border #3 again.

2. Touch Pictogram (border appears in center of screen).

3. Touch the Pictogram.

4. Touch the Rotate Pictogram.

5. Touch 100 degrees once, then press 10 degrees a total of 8 times, until the angle of rotation displayed is 180 degrees.

6. Touch to register this change.

7. Touch to return to the Edit screen.

8. Touch Pictogram.

10. Use left arrow picto to move design to the left, then the down arrow picto to move design down. Borders should line up vertically as one long border.

11. To check placement, touch the \( \text{\text{Pictogram}} \) Touch \( \text{\text{x8}} \) zoom.

12. Touch location on screen where the borders meet, to check the placement.

13. Touch \( \text{\text{Pictogram}} \) to access Positioning Arrows and move border.

14. Touch \( \text{\text{x1}} \) and \( \text{\text{Pictogram}} \) to return to full screen.

15. Touch \( \text{\text{Pictogram}} \) to return to the Edit screen.

16. Touch \( \text{\text{Pictogram}} \) to combine with another border.

1. Select Border #3 again.

2. Touch \( \text{\text{Pictogram}} \) (border appears in center of screen).

3. Touch \( \text{\text{Pictogram}} \).

4. Touch \( \text{\text{Pictogram}} \).

5. Use right arrow key to move border to the right in 23 moves. Use up arrow key to move border up, until bottom of the border touches the X-axis on screen.

6. To check placement, touch \( \text{\text{Pictogram}} \) Touch \( \text{\text{x8}} \) zoom.

7. Touch screen where border meets the X-axis line.

8. Touch \( \text{\text{Pictogram}} \) to activate Positioning Arrows and move border.

9. Touch \( \text{\text{Pictogram}} \) and \( \text{\text{Pictogram}} \) zoom to return to full screen.

10. Touch \( \text{\text{Pictogram}} \) to return to the Edit screen.

11. Touch \( \text{\text{Pictogram}} \) to combine with another border.
1. Select Border #3 again.

2. Touch Pictogram (border appears in center of screen).

3. Touch Pictogram.

4. Touch Rotate Pictogram.

5. Touch 100 degrees, then touch 10 degrees a total of 8 times, until the angle of rotation displayed reads 180 degrees.

6. Touch OK to register this change.

7. Touch Pictogram to access Positioning Arrows and move border.

8. Use the arrow pictos to position the border to line up vertically with the upper border and meeting at the X-axis.


10. Touch spot on screen where the borders meet, to check the placement.

11. Touch Pictogram to activate Positioning Arrows. Make the final adjustments to the border placement.

12. Touch and zoom to return to full screen.

13. Touch to return to the Edit screen.

14. Touch to select Multi-hoop End.
DEFINING AN AREA TO BEGIN EMBROIDERING

1. Use the arrow keys to move the “Hoop” on screen, to select the 1st area to be embroidered.
2. Select OK.
3. Place fabric in hoop, so X and Y axis lines drawn on the fabric are set in the hoop in similar placement to the display on screen.
4. Place hoop and fabric onto the embroidery unit.
5. Touch OK.

PREPARING TO SEW—SPECIFYING THE MULTIHOOP POINTS

Specifying the needle entry points is the way the sewing machine receives the information it needs to stitch the design elements in correct position. Only 3 needle entry points are needed to accomplish this... 2 on the Y-axis line (points a and b), and one on the X-axis line (point c).

If you look carefully at your Embroidery Frame you will see two raised marks in each corner. One mark looks like a small oval [ ] and the other looks like a small triangle [ △ ]. These marks are used to aid in hooping and aligning the X and Y Axis lines. Aligning the X and Y lines with the △ marks allows a maximum size design of 220mm x 430mm. Aligning with the [ ] marks allows a maximum size design of 250mm x 450mm. When laying out a pattern and moving an element to the farthest point in the hoop always use the [ ] marks.

 Specifying Point a on the Y-axis line:

1. Touch on screen at one end of the vertical line, to move the frame.
2. Turn handwheel to check that needle touches the vertical line drawn on the fabric.
3. If needle is not directly on the vertical line, use the Position Keys on the sewing machine screen, to move the needle until it is directly over the vertical line drawn on the fabric.
4. When needle is in correct position, touch the Position Memory key on screen, to register this first point.

 Specifying Point b on the Y-axis line:
Multiple Hoop Embroidery

1. Touch on screen at the opposite end of the vertical line, to move the frame.
2. Turn handwheel to check that needle touches the vertical line drawn on the fabric.
3. If needle is not directly on the vertical line, use the Position Keys on the sewing machine screen, to move the needle until it is directly over the vertical line drawn on the fabric.
4. When the needle is in correct position, touch the Position Memory key on screen, to register this second point.

Specifying Point c on the X-axis line:

1. Touch on screen at one end of the horizontal line, to move the frame.
2. Turn handwheel to check that needle touches the horizontal line drawn on the fabric.
3. If needle is not directly on the horizontal line, use the Position Keys on the sewing machine screen, to move the needle until it is directly over the horizontal line drawn on the fabric.
4. When needle is in correct position, touch the Position Memory key on screen, to register this third point.
5. Stitch out the design elements.

PREPARING TO SEW NEXT AREA OF DESIGN LAYOUT

1. When stitching is complete, touch OK on screen to proceed to the next group of design elements in the layout.
2. Use the Arrow Keys on screen, to move the “hoop” and select the next area to be sewn. Touch OK.
3. Place fabric in the hoop so x and y lines drawn on the fabric are set in the hoop in similar placement to the display on screen.
4. Place fabric and hoop onto embroidery unit.
Specifying Point \(d\) on the Y-axis line:
1. Touch on screen at one end of the vertical line, to move the frame.
2. Turn handwheel to check that needle touches the vertical line drawn on the fabric.
3. If needle is not directly on the vertical line, use the Position Keys on the sewing machine screen, to move the needle until it is directly over the vertical line drawn on the fabric.
4. When needle is in correct position, touch the Position Memory key on screen to register this point.

Specifying Point \(e\) on the Y-axis line:
1. Touch on screen at the opposite end of the vertical line, to move the frame.
2. Turn handwheel to check that needle touches the vertical line drawn on the fabric.
3. If needle is not directly on the vertical line, use the Position Keys on the sewing machine screen, to move the needle until it is directly over the vertical line drawn on the fabric.
4. When needle is in correct position, touch the Position Memory key on screen to register this point.

Specifying Point \(f\) on the X-axis line:
1. Touch on screen at one end of the horizontal line, to move the frame.
2. Turn handwheel to check that needle touches the horizontal line drawn on the fabric.
3. If needle is not directly over the horizontal line, use the Position Keys on the sewing machine screen, to move the needle until it is directly over the horizontal line drawn on the fabric.
4. When needle is in correct position, touch the Position Memory key on screen to register this point.
5. Stitch out the design elements.
Memory in Embroidery

There are 32 memory folders available within the machine when in embroidery mode. Each one of these folders can hold as much as 180,000 stitches.

Each file folder stores all stitch data from a design layout. Since all stitch data is saved, it is not necessary to place memory cards in the machine so that stitch data can be retrieved. The XL-5000 can do this in all 32 folders.

**To save a design layout:**

1. Touch the key.
2. Touch the folder where the design is to be stored.
3. Touch the Pictogram.
4. Touch the Pictogram to return to previous screen.

**To retrieve a stored design layout from a folder:**

1. Turn machine on.
2. Touch the key.
3. Touch the folder in which the design was saved.
4. Touch the Pictogram.
5. Touch OK.
Continuous Hoop Embroidery Frame

This optional accessory is available for continuous border sewing when the machine is set up in the embroidery mode. There are 6 Continuous Hoop embroidery designs built into the XL-5000, that are capable of being sewn only by using the Continuous Embroidery Frame.

In addition, the Continuous Embroidery Frame comes with a design card, which contains a large selection of borders in various styles such as floral, celtic, southwest, lace, heirloom, and more.

Note: The Continuous Embroidery Sewing Screen has a Monochromatic Pictogram Option that looks like three spools of thread with a line through two of the spools. Activating this Option allows you to sew any multiple color design with only one color and not stop for color changes.