Husqvarna VIKING®

Designer Diamond deLuxe™

User's Guide

KEEPING THE WORLD SEWING™

This household sewing machine is designed to comply with IEC/EN 60335-2-28 and UL1594

IMPORTANT SAFETY INSTRUCTIONS

When using an electrical appliance, basic safety precautions should always be followed, including the following: Read all instructions before using this household sewing machine.

DANGER – To reduce the risk of electric shock:

- A sewing machine should never be left unattended when plugged in. Always unplug this sewing machine from the electric outlet immediately after using and before cleaning.

WARNING – To reduce the risk of burns, fire, electric shock, or injury to person:

- This sewing machine is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the sewing machine by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the sewing machine.
- Use this sewing machine only for its intended use as described in this manual. Use only attachments recommended by the manufacturer as contained in this manual.
- Never operate this sewing machine if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water. Return the sewing machine to the nearest authorized dealer or service center for examination, repair, electrical or mechanical adjustment.
- Never operate the sewing machine with any air openings blocked. Keep ventilation openings of the sewing machine and foot controller free from the accumulation of lint, dust, and loose cloth.
- Keep fingers away from all moving parts. Special care is required around the sewing machine needle.
- Always use the proper needle plate. The wrong plate can cause the needle to break.
- Do not use bent needles.
- Do not pull or push fabric while stitching. It may deflect the needle causing it to break.
- Wear safety glasses.
- Switch the sewing machine off ("0") when making any adjustment in the needle area, such as threading needle, changing needle, threading bobbin, or changing presser foot, etc.
- Always unplug sewing machine from the electrical outlet when removing covers, lubricating, or when making any other user servicing adjustments mentioned in the instruction manual.
- Never drop or insert any object into any opening.
- Do not use outdoors.
- Do not operate where aerosol (spray) products are being used or where oxygen is being administrated.
- To disconnect, turn all controls to the off ("0") position, then remove plug from outlet.
- Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
- Hold plug when rewinding into cord reel. Do not allow plug to whip when rewinding.
- This sewing machine is provided with double insulation. Use only identical replacement parts.See instructions for Servicing of Double-Insulated Appliances.

SAVE THESE INSTRUCTIONS

SERVICING OF DOUBLE INSULATED PRODUCTS

In a double-insulated product, two systems of insulation are provided instead of grounding. No ground means is provided on a double-insulated product, nor should a means for grounding be added to the product. Servicing of a double-insulated product requires extreme care and knowledge of the system, and should be done only by qualified service personnel. Replacement parts for a double-insulated product must be identical to those parts in the product. A double-insulated product is marked with the words 'DOUBLE INSULATION' or 'DOUBLE INSULATED'.

TABLE OF CONTENTS

1 Getting to know your machine 1:5

MACHINE OVERVIEW 1:6
- Needle area 1:7
- Rear side 1:7
- Accessory tray 1:7
- Parts of the embroidery unit 1:7

ACCESSORIES 1:8
- Included accessories 1:8
- Hoops Included 1:8
- Accessories Included - not in the picture 1:9
- Presser feet 1:9

STITCHES 1:11

2 Set Up 2:1

UNPACKING 2:2
- Connect the power cord and foot control 2:2
- Pack away after sewing 2:2

ADJUSTABLE E LIGHT™ 2:3
FREE ARM 2:3
THREAD CUTTER 2:3
SPOOL PINS 2:4
- Horizontal position 2:4
- Vertical position 2:4
- Auxiliary spool pin 2:4

THREADING THE UPPER THREAD 2:5
- Horizontal Spool Pin 2:5
- Needle threader 2:5
- Threading for twin needle 2:6
- Thread sensor 2:6

BOBBIN WINDING 2:7
- Bobbin Winding through the needle 2:7
- Bobbin Winding while embroidering or sewing 2:8
- Inserting the bobbin 2:8

PRESSER FOOT 2:9
- Changing the presser foot 2:9
- Attaching the Sensor Q-foot 2:9
- EXCLUSIVE SENSOR SYSTEM™ 2:9

CHANGING THE NEEDLE 2:9
NEEDLES 2:10
THREADS 2:11
STABILIZERS 2:11
PICTOGRAM™ PEN 2:11
USB PORTS 2:12
- USB embroidery stick 2:12

CONNECTING THE MACHINE TO YOUR COMPUTER 2:13
- 5D™ Embroidery Software 2:13
- Installing your Software 2:13
- Register your 5D™ software 2:13
- Install Hardware Drivers and Connect the Embroidery Machine 2:13
- How to Launch the Programs 2:14
- Embroidery Machine Communication module 2:14
- How to Update your Machine 2:14

3 Ultimate Interactive Screen 3:1

ULTIMATE INTERACTIVE SCREEN 3:2
- How to use the screen 3:2

TOOLBAR 3:2
- Quick Help 3:2

EXTENDED TOOLBAR 3:3
STITCH MENU 3:3
FONT MENU 3:4
DESIGN MENU 3:4
EMBROIDERY ADVISOR™ 3:5
FILE MANAGER 3:5
SET MENU 3:6
- Stitch Settings 3:6
- Sewing Settings 3:7
- Machine Settings 3:9
- Sound Settings 3:11
- Screen and Light Settings 3:12

INFORMATION MENU 3:13
BOTTOM TOOLBAR 3:13
FUNCTION BUTTONS 3:14
- Start/Stop 3:14
- Speed + and - 3:14
- STOP (Monochrome) 3:14
- FIX (Baste) 3:14
- Sensor Foot Down and Pivot 3:14
- Sensor Foot Up and Extra Lift 3:15
- Selective Thread Cutter 3:15
- Needle Stop Up/Down (Trim position) 3:15
- Stitch Re-Start 3:15
- EXCLUSIVE SENSOR SYSTEM™ 3:15
- Reverse 3:16

COMMON ICONS/FUNCTIONS 3:16

4 Sewing 4:1

SEWING MODE - OVERVIEW OF ICONS 4:2
EXCLUSIVE SEWING ADVISOR™ 4:3
- Fabric Selection 4:3
- Sewing Techniques 4:4
- Extended SEWING ADVISOR™ 4:4

TOOLBAR 4:5
SELECT A STITCH 4:5
STITCH SETTINGS 4:6
- Free Motion Technique 4:8
- *deLuxe*™ Stitch System 4:9
- Stitch Settings in SET Menu 4:10
- Balance 4:10
- EXCLUSIVE SENSOR SYSTEM™ feature - Sensor Foot Pressure 4:10

SEWING TECHNIQUES 4:11
- Seam 4:11
- Overcast 4:12
- Seam and Overcast 4:13
- Seam/Overcast for Ribbing 4:13
- Baste 4:14
- Blind Hem 4:14
- Hem 4:15

Jeans Hem 4:15
Stretch Hem 4:15
Perfectly Balanced Sensor One-Step Buttonhole 4:16
Manual buttonhole 4:17
Embroidered buttonhole 4:17
Programmable Button Sew On 4:18
4-way Stitches - Menu S 4:19
8-Way Stitches – Menu T 4:20
Bartacks 4:21
Manual bartack 4:21
Save to My Stitches 4:22
Special Sewing Techniques 4:23
Decorative Tapering Stitches 4:23
SEWING POP-UP MESSAGES 4:24

5 Program 5:1
PROGRAM - OVERVIEW OF ICONS 5:2
TO PROGRAM IN SEWING MODE 5:3
TO PROGRAM IN EMBROIDERY EDIT 5:3
EDIT YOUR STITCH OR LETTERING PROGRAM 5:4
Adjust the entire program 5:4
Save to "My Stitches" 5:5
Save your Program in "My Files" 5:5
Stitch program commands 5:6
Sewing a stitch program 5:6
IMPORTANT PROGRAM MODE INFORMATION 5:7
PROGRAM POP-UP MESSAGES 5:8

6 Embroidery Set Up 6:1
EMBROIDERY UNIT OVERVIEW 6:2
EMBROIDERY HOOP OVERVIEW 6:2
DESIGNS 6:3
CONNECT THE EMBROIDERY UNIT 6:3
REMOVE THE EMBROIDERY UNIT 6:3
TO HOOP THE FABRIC 6:4
SLIDE ON THE HOOP 6:4
AUTOMATIC JUMP STITCH TRIM 6:4
GETTING STARTED EMBROIDERING 6:5

7 Embroidery Edit 7:1
EMBROIDERY EDIT - OVERVIEW OF ICONS 7:2
MAIN FUNCTIONS IN THE EXTENDED EMBROIDERY EDIT TOOLBAR 7:3
Load a stitch 7:3
Load a buttonhole 7:3
Load a font 7:3
Load a design 7:3
Exclusive EMBROIDERY ADVISOR™ 7:3
File Manager 7:3
SET Menu 7:3
Information menu 7:3
MY HOOPS 7:4
DESIGN SHAPING 7:4
RESIZE 7:7
Important Resize information 7:8
COLOR EDIT 7:9
EDIT STITCH PROGRAM 7:10
PROGRAM EMBROIDERY FONTS 7:10
HOOP/DESIGN OPTIONS BAR 7:11
ZOOM OPTIONS 7:12
UNDO 7:12
REDO 7:12
TOUCH FUNCTIONS 7:13
ADJUSTMENTS 7:14
DESIGN STITCH OUT ORDER 7:14
MOVE DESIGN BACKWARD/FORWARD 7:14
HOW TO SELECT DESIGNS 7:15
Advanced selection 7:16
Select designs exercise 7:17
EMBROIDERY EDIT POP-UP MESSAGES 7:18

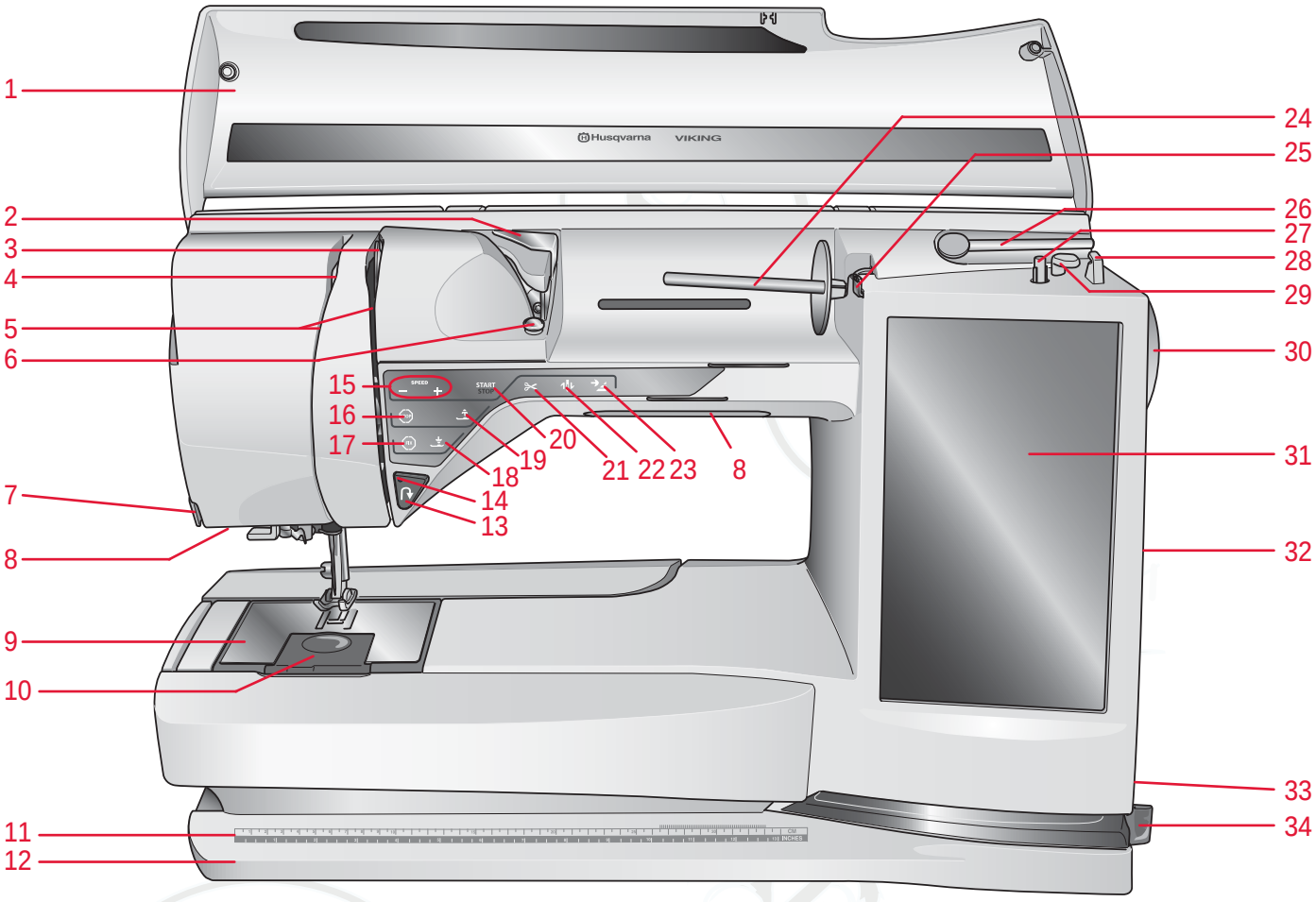
8 Embroidery Stitch-Out 8:1
EMBROIDERY STITCH-OUT - OVERVIEW OF ICONS 8:2
DESIGN POSITIONING 8:3
How to use Design Positioning 8:4
Design Positioning Wizard 8:4
Design Positioning exercise 8:5
BASTE IN HOOP 8:6
MOVE HOOP 8:6
COLOR FUNCTIONS ICON 8:7
SMART SAVE 8:7
CORNER CHECK 8:7
HOOP/DESIGN OPTIONS BAR 8:8
ZOOM OPTIONS 8:8
REMAINING EMBROIDERY TIME BY COLOR 8:9
RETURN TO EMBROIDERY EDIT 8:9
DELUXE™ STITCH SYSTEM 8:9
STEP STITCH-BY-STITCH CONTROL 8:9
GO TO STITCH 8:9
NUMBER OF STITCHES IN EMBROIDERY COMBINATION 8:10
NUMBER OF STITCHES IN CURRENT COLOR BLOCK 8:10
COLOR BLOCK LIST 8:10
FUNCTION BUTTONS IN EMBROIDERY STITCH-OUT 8:11
Start/Stop 8:11
Speed + and - 8:11
STOP (Monochrome) 8:11
FIX (Baste) 8:11
Sensor Foot Down and Pivot 8:11
Sensor Foot Up and Extra Lift 8:11
Selective Thread Cutter 8:11
Needle Stop Up/Down (Trim Position) 8:11
Stitch Re-Start (Bobbin Access) 8:11
EMBROIDERY STITCH-OUT POP-UP MESSAGES 8:12

9 File Manager 9:1
FILE MANAGER - OVERVIEW OF ICONS 9:2
AVAILABLE MEMORY 9:3
FILE FORMATS 9:3
BROWSE FILE MANAGER 9:3
ORGANIZE 9:6
FILE MANAGER POP-UP MESSAGES 9:7

10 Maintenance 10:1
CLEANING THE MACHINE 10:2
TROUBLESHOOTING 10:3
INDEX 10:5
INTELLECTUAL PROPERTY 10:11

1 Getting to know your machine

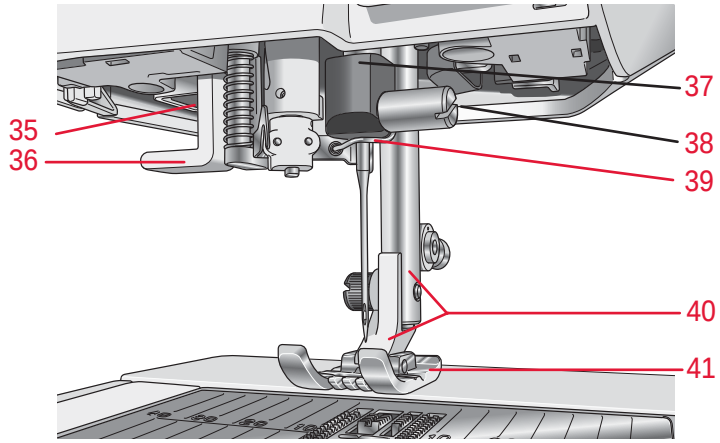
MACHINE OVERVIEW



1. Lid
2. Pre-Tension Thread guide
3. Thread tension discs
4. Thread take-up lever
5. Thread slots
6. Thread tension disc for bobbin winding
7. Thread cutter
8. Adjustable E LIGHT™ system
9. Stitch plate
10. Bobbin cover
11. Button ruler and built-in tape measure
12. Base plate
13. Reverse
14. Reverse indicator
15. Speed + and -
16. STOP
17. FIX
18. Sensor Foot Down and Pivot
19. Sensor Foot Up and Extra Lift
20. Start/Stop
21. Selective Thread Cutter button
22. Needle Stop Up/Down
23. Stitch Re-Start
24. Main spool pin
25. Bobbin winding thread guide
26. Auxiliary spool pin
27. Bobbin winder
28. Thread cutter for bobbin winding
29. Bobbin winding lever
30. Handwheel
31. Ultimate Interactive Screen
32. Built-In USB ports
33. ON/OFF switch, connectors for power cord and foot control
34. Stylus holder

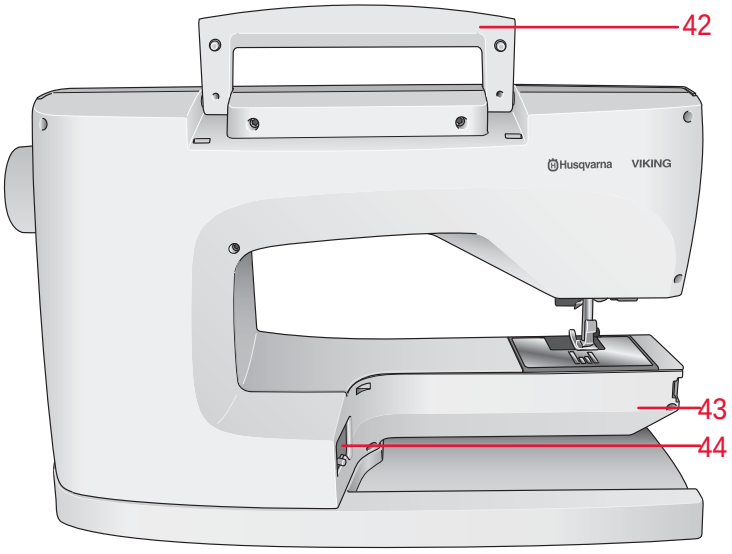
NEEDLE AREA

35. Sensor One-Step Buttonhole Foot socket
36. Built-In needle threader
37. Needle bar
38. Needle clamp
39. Needle thread guide
40. Presser foot bar and presser foot ankle
41. Presser foot



REAR SIDE

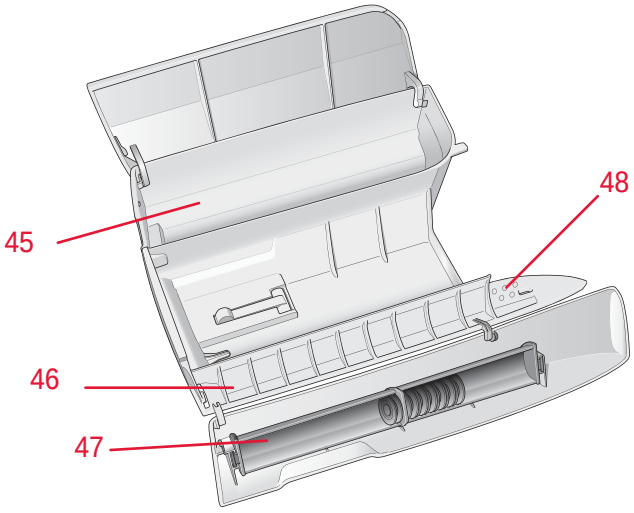
42. Handle
43. Free arm
44. Embroidery unit connection socket



ACCESSORY TRAY

The accessory tray features special compartments for presser feet and bobbins, plus space for needles and other accessories. Store the accessories in the tray so that they are easily accessible.

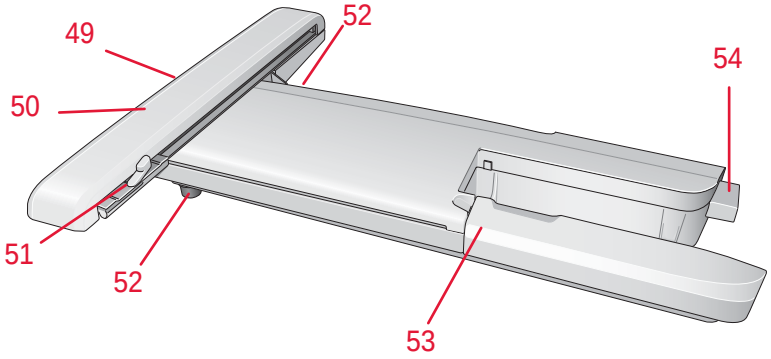
45. Space for accessories
46. Spaces for presser feet
47. Removable bobbin holder
48. Holes for needles



PARTS OF THE EMBROIDERY UNIT

(type BE 17)

49. Embroidery unit release button (underside)
50. Embroidery arm
51. Embroidery hoop attachment
52. Level adjusting feet
53. Embroidery accesssory tray
54. Embroidery unit socket



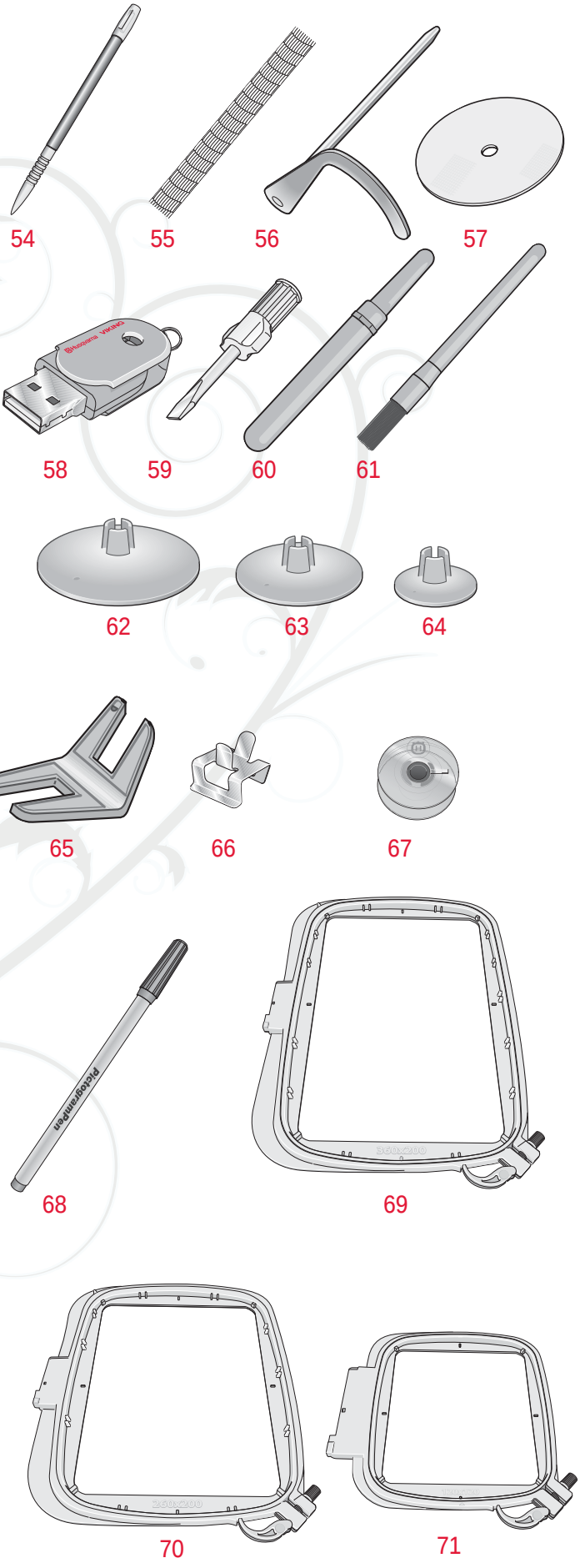
ACCESSORIES

INCLUDED ACCESSORIES

54. Stylus
55. Thread net
56. Edge/Quilting guide
57. Felt pad
58. USB embroidery stick (1 GB)
59. Screwdriver
60. Seam ripper
61. Brush
62. 2 spool caps, large (1 attached on the machine at delivery)
63. Spool cap, medium (attached on the machine at delivery)
64. Spool cap, small
65. Multipurpose tool/Button reed
66. Hoop clips (16)
67. 11 Bobbins (1 in machine at delivery)
68 PICTOGRAM™ Pen

HOOPS INCLUDED

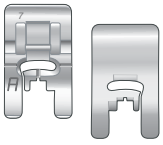
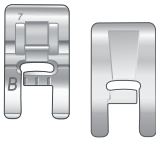
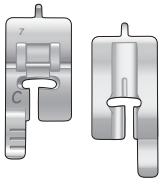
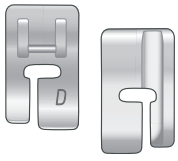
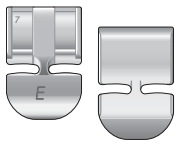
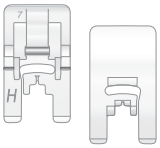
69. DESIGNER™ Royal Hoop (360x200)
70. DESIGNER™ Crown Hoop (260x200)
71. DESIGNER™ Splendid Square Hoop (120x120)

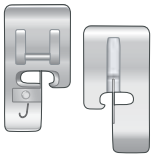
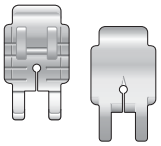
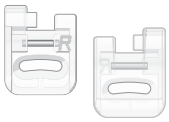
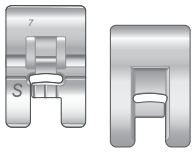
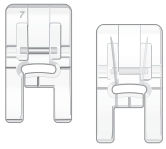
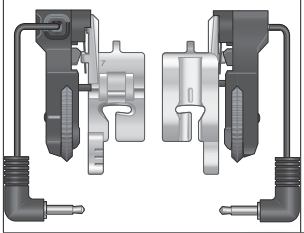
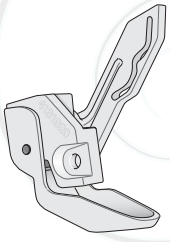


ACCESSORIES INCLUDED - NOT IN THE PICTURE

- 5D™ Embroidery Machine Communication CD
- Carrying Case (attached on the machine upon delivery)
- Scissors
- Luggage style carrying bag with packing insert
- Foot control
- Power cord
- USB PC cable
- Needles
- Embroidery thread
- Pieces of fabric and stabilizer
- Classic Collection CD
- DESIGNER DIAMOND *deLuxe*™ Sampler Book
- User´s Guide
- Quick Guide - 1 for sewing/ 1 for embroidery
- Warranty card

PRESSER FEET

	**Utility Foot A**	Snapped onto the machine upon delivery. This foot is used mainly for straight stitching and zigzag stitching with a stitch length longer than 1.0.
	**Decorative Stitch Foot B**	For sewing close zigzag stitches (satin stitches) with less than 1.0 mm stitch length, other utility stitches or decorative stitches, use this foot. The tunnel on the underside of the foot is designed to feed smoothly over the stitches.
	**Buttonhole Foot C**	For manual buttonholes. This foot has guide lines to determine buttonhole length. The middle measures a 5/8" (15 mm) from the fabric edge. The two tunnels on the underside of the foot ensure a smooth feed over the buttonhole columns. The finger on the back of the foot holds cording for corded buttonholes.
	**Blindhem Foot D**	This foot is used for blindhem stitches. The inner edge of this foot guides the fabric. The right toe of the foot is designed to ride along the hem edge.
	**Zipper Foot E**	This foot can be snapped on either to the right or to the left of the needle. This makes it easy to sew both sides of the zipper. Move needle position to right or left to sew closer to zipper teeth or for covering large cording.
	**Non-Stick Glide Foot H**	This foot, with a non-stick coating underneath, is used when sewing foam, vinyl, plastic, or leather to keep these materials from sticking to the foot.

	**Edging Foot J**	This foot is used for overcasting and seam/overcasting, with stitches that have a stitch width of 5.0 and 5.5 mm. Stitches form over the pin which prevents puckering at the edge of the fabric.
	**Quilter's 1/4" Piecing foot P**	This foot is used when piecing quilt blocks. The foot has distance guidelines marks 1/4" (6 mm) and 1/8" (3 mm) from the needle.
	**Embroidery/Darning Foot R**	This foot is used for Free Motion embroidery/quilting/stitching and darning. When using this foot, select Free Motion Floating in the Free Motion Techniqe pop-up in Sewing Mode.
	**Side Motion Foot S**	This foot is used for side-motion/Omnimotion stitches.
	**Decorative Stitch Foot B Transparent**	A clear foot for decorative sewing makes it easy to match stitches. Same tunnel on the underside as Presser Foot B.
	**Sensor One-Step Buttonhole Foot**	Plug into the machine then enter the desired buttonhole length to sew Sensor One-Step Buttonholes. The middle mark measures a 5/8" (15 mm) from fabric edge.
	Self-Adhesive Glide Plates	Used for Presser Foot C/Sensor One-Step Buttonhole Foot when sewing buttonholes on plastic-coated fabrics, leather, etc.
	**Sensor Q-foot**	The Sensor Q-foot is always recommended for embroidery. This foot is also used for free motion sewing, quilting and embroidering on especially thick or spongy fabric. When using the Sensor Q-foot for free motion, select Free Motion Spring Action in the Free Motion Technique pop-up in Sewing Mode.

STITCHES

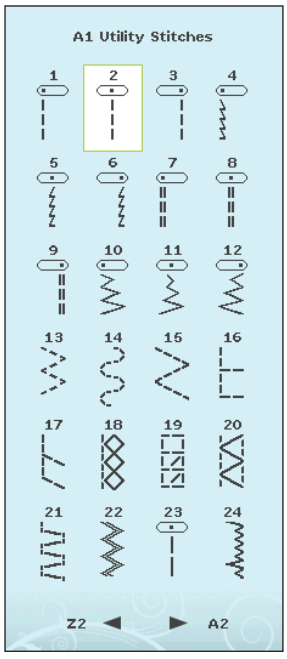
Stitch	Stitch no.	Stitch name	Presser Foot	Application
	A1, A2, A3	Straight Stitch, left center and right needle position	A	For all types of sewing. Touch stitch width and Side-to-Side mirror image to select 29 different needle positions.
	A4, A5, A6	Stretch Stitch, left ,center and right needle position	A	For seams in tricot and stretch fabrics.
	A7, A8, A9	Reinforced Straight Stitch, left, center and right needle position	A	Triple and elastic, for reinforced seams. For topstitch, increase the stitch length. 29 different needle positions.
	A10, A11, A12	Zig Zag, left, center and right needle position	A	For sewing on lace, bands and appliques.
	A13	Three Step Zig Zag	A	For overcasting, mending, sewing on patches and elastic. Suitable for light and medium weight fabrics.
	A14	Serpentine Stitch	A	For mending and elastic applications.
	A15	Four-Step Zig Zag	A	For overcasting, mending, sewing on patches and elastics on loosely woven fabrics.
	A16	Seam/Overcast Stitch	J	Seam and overcast in one step along the edge or trim later. For light stretch and non-stretch fabrics.
	A17	Stretch Seam Overcast Stitch	B	Seam and overcast in one step along the edge or trim later. For medium and medium/heavy stretch fabrics.
	A18	Double Overlock Stitch	B	Seam and overcast in one step along the edge or trim later. For heavy stretch and heavy woven fabrics.
	A19	Overlock Stitch	B	Seam and overcast in one step along the edge or trim later. For medium stretch fabrics.
	A20	Flatlock Stitch	B	Decorative hems and overlapped seams, belts and bands. For medium/heavy stretch fabrics.
	A21	Elastic/Casing Stitch	B	For overlapped seams in tricot. To sew casing over narrow elastic.
	A22	Reinforced Zig Zag Stitch	B	For joining fabric edge to edge or overlapping in leather. For decorative sewing.
	A23	Basting Stitch	A	For joining two pieces of fabric with a long stitch length and reduced tension.
	A24	Stretch Blind Hem Stitch	D	Blind hems in stretch medium and heavy fabrics.
	A25	Woven Blind Hem Stitch	D	Blind hems in medium and heavy woven fabrics.
	A26	Shell Edge Stitch	A	For Edgings, sew over the edge on light stretch fabrics, sew woven fabric on bias.

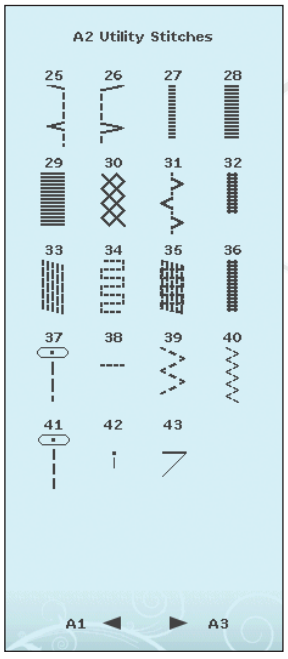
	A27	2 mm Satin Stitch	B	For appliqués, sewing on laces and trims. For light and medium fabrics.
	A28	4 mm Satin Stitch	B	For appliqués, sewing on laces and trims. For light and medium fabrics.
	A29	6 mm Satin Stitch	B	For appliqués, sewing on laces and trims. For heavy fabrics.
	A30	Elastic or Smocking Stitch	B	Sew over two rows of elastic thread for elastic shirring.
	A31	Bridging Stitch	B	For joining two pieces of fabric with finished edges and for elastic shirring.
	A32	Bartack Stitch	B	Reinforce pockets, shirts openings, belt loops as well as at lower end of a zipper.
	A33	Darning Stitch (Forward and Backward)	A	Darn and mend small holes in work clothes, jeans, tablecloths and linen towels. Stitch over hole, touch reverse for continuous darning and auto stop.
	A34	Darning Stitch (Side to Side)	A	For mending small tears.
	A35	Reinforced Darning Stitch	A	Darn and mend work clothes, jeans, table cloths and linen towels. Stitch over hole, touch reverse for continuous darning and auto stop.
	A36	Bartack, Manual	B	Reinforce pockets, shirts openings, belt loops as well as at lower end of a zipper.
	A37	Gathering Stitch	A	For gathering.
	A38	Belt Loop Stitch	A	For securing belt loops.
	A39	Three-Step Zig Zag	J	For overcasting, mending, sewing on patches and elastic. Suitable for light and medium weight fabrics.
	A40	Two-Step Zig Zag	A	For joining two pieces of fabric with finished edges and for elastic shirring.
	A41	Straight stitch with FIX	A	Begins and ends with forward and reverse sewing.
	A42	Straight Basting Stitch	A	Use together with the foot control to baste pieces of the fabric together. Feed the fabric by moving to the next baste position when sensor foot lifts. Feed teeth lowered automatically.
	A43	Zig Zag Basting	A	Use together with the foot control to baste layers of the fabric by moving to the next baste position when foot lifts.

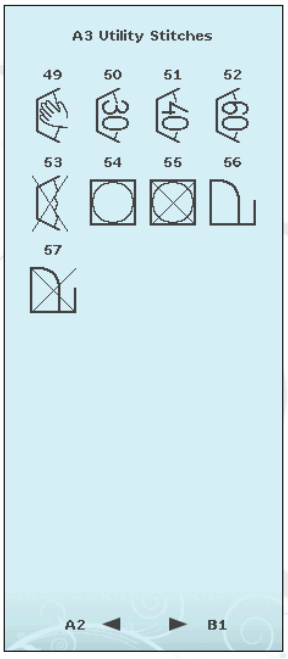
Note: Fabric Care stitches (A49-A57). Touch Quick Help, then touch the stitch to identify the name of the stitch. Make labels for your garments.

	B1	Wide Bartack Buttonhole	Sensor Buttonh. Foot /C	For medium and heavy fabrics with extra cutting space.
	B2	Bartack Buttonhole	Sensor Buttonh. Foot /C	For most fabric weights.
	B3	Rounded Bartack Buttonhole	Sensor Buttonh. Foot /C	For light weight fabrics.
	B4	Round End Buttonhole	Sensor Buttonh. Foot /C	For blouses and children's garments.
	B5	Heavy Reinforced Buttonhole	Sensor Buttonh. Foot /C	For utility and heavy fabrics.
	B6	Medium Reinforced Buttonhole	C	For medium fabrics.
	B7	Medium Reinforced Decorative Buttonhole	C	For medium fabrics.
	B8	Heirloom Buttonhole	Sensor Buttonh. Foot /C	For hand look on fine and delicate fabrics. Tip: For jeans buttonholes, increase length and width of the buttonhole. Use thicker thread.
	B9	Rounded Heirloom Buttonhole	Sensor Buttonh. Foot /C	For hand look on fine and delicate fabrics.
	B10	Keyhole Buttonhole	Sensor Buttonh. Foot /C	Square end for tailored jackets, coats, etc.
	B11	Tapered Keyhole Buttonhole	Sensor Buttonh. Foot /C	Tapered end for tailored garments.
	B12	Heavy Duty Buttonhole	Sensor Buttonh. Foot /C	With reinforced bartacks.
	B13	Decorative Fashion Buttonhole	Sensor Buttonh. Foot /C	For most fabric weights.
	B14	Leather Buttonhole (Straight Stitch)	A	For leather and suede.
	B15	Bound Buttonhole (Straight Stitch)	A	With extra cutting space for bound buttonholes.
	B16	Automatic Button Sewing	-	For sewing on buttons
	B17	Round Eyelet	B	For belts, laces, etc.
	B18	Teardrop Eyelet	B	For laces, embellishments.
	B19	Oval Eyelet	B	For laces, embellishments.
	B20	Decorative Fashion Buttonhole	Sensor Buttonh. Foot /C	For most fabric weights.

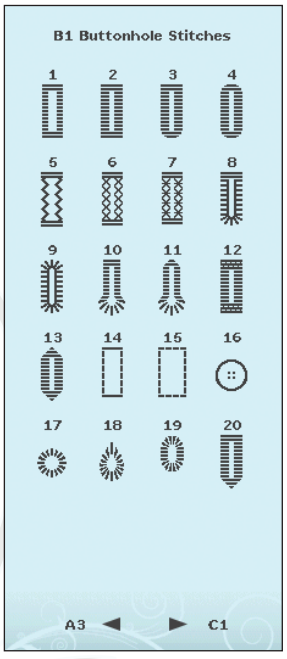
A - Utility Stitches



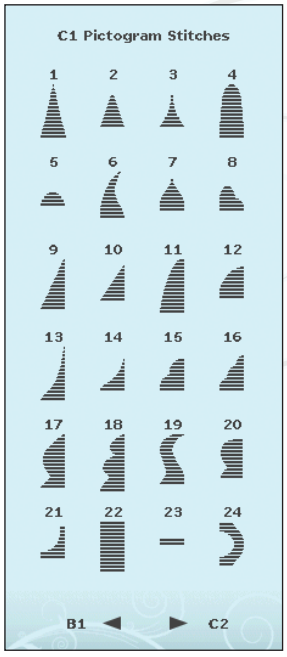


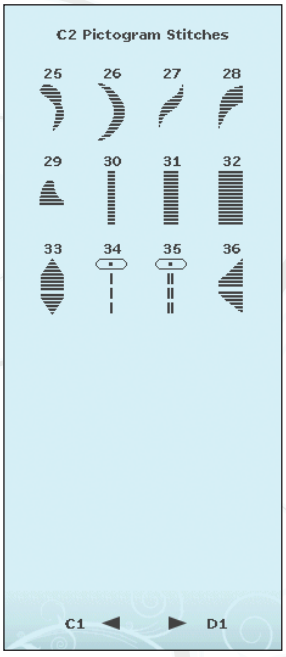


B - Buttonhole Stitches

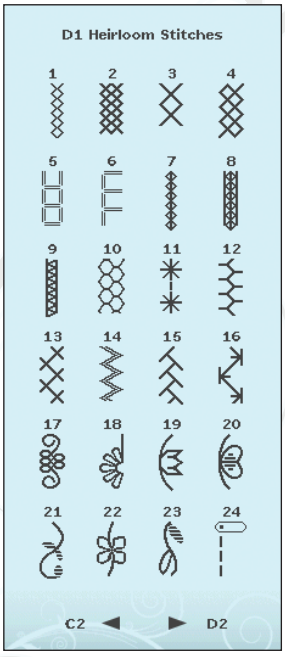


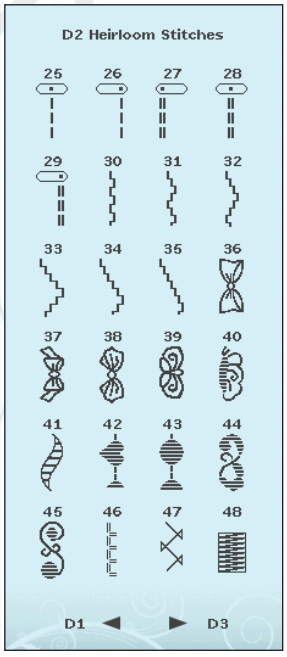
C - Pictogram Stitches

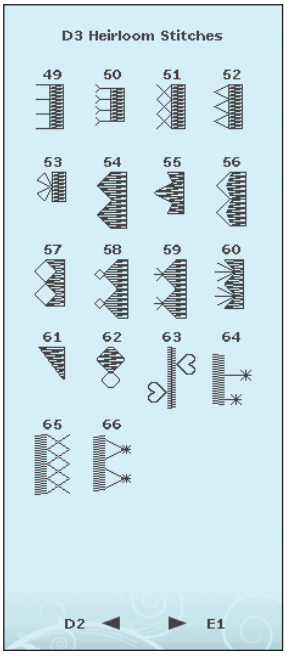




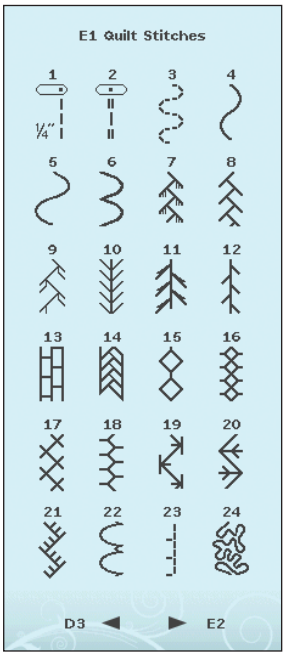
D - Heirloom Stitches

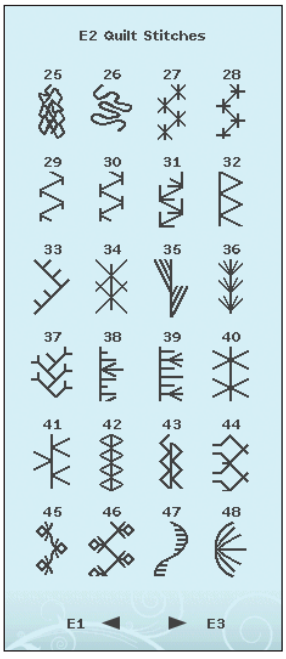


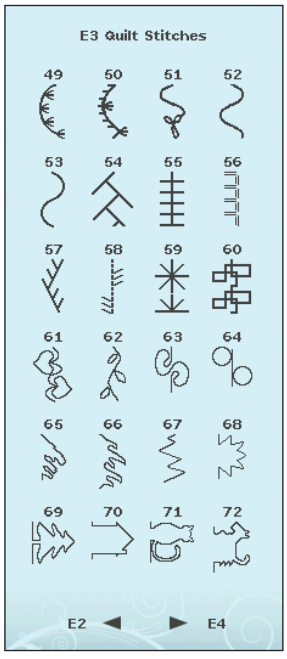


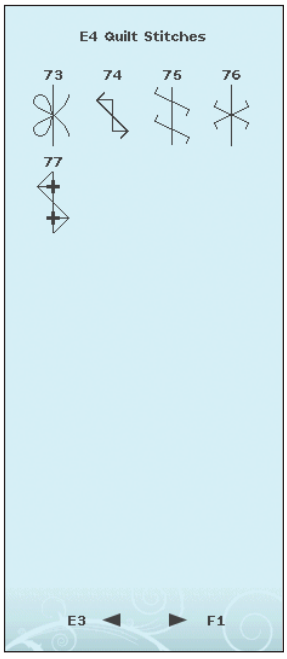


E - Quilt Stitches

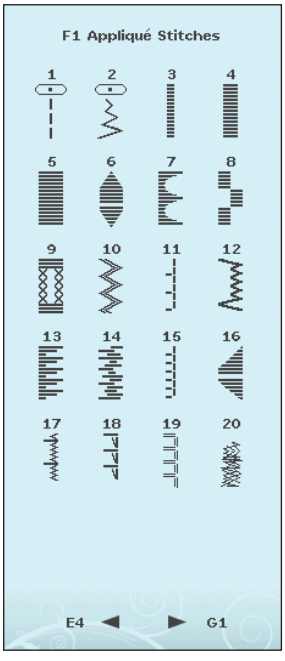




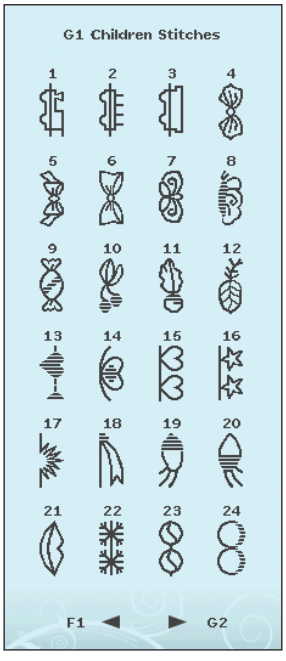


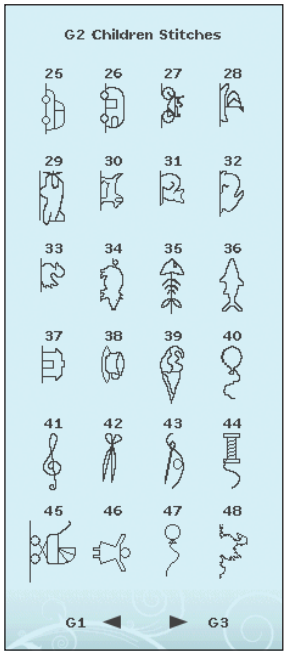


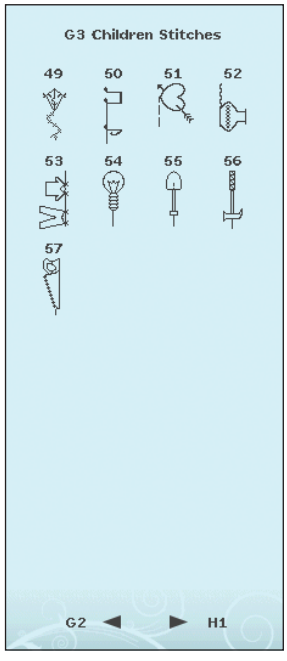
F - Appliqué Stitches



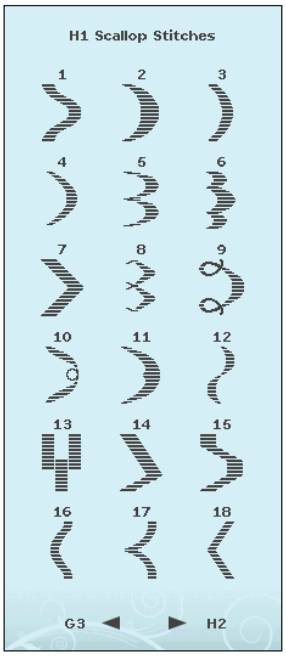
G - Children Stitches

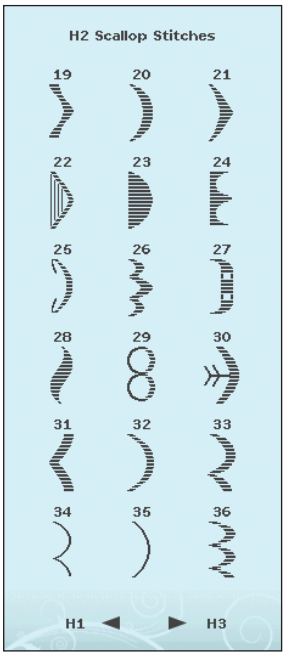


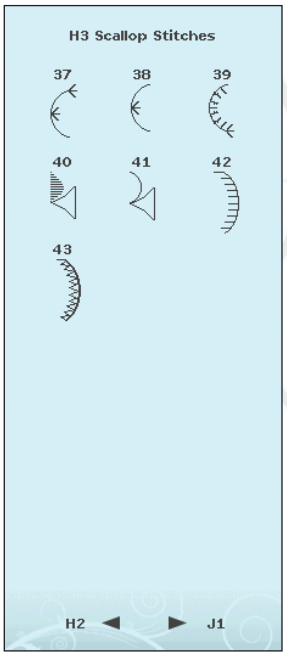




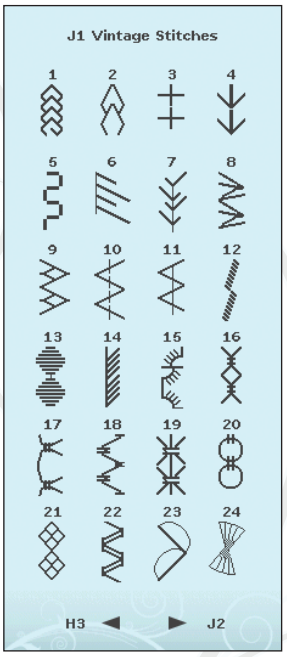
H - Scallop Stitches

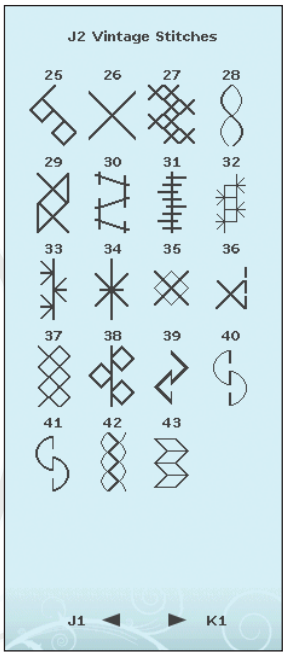




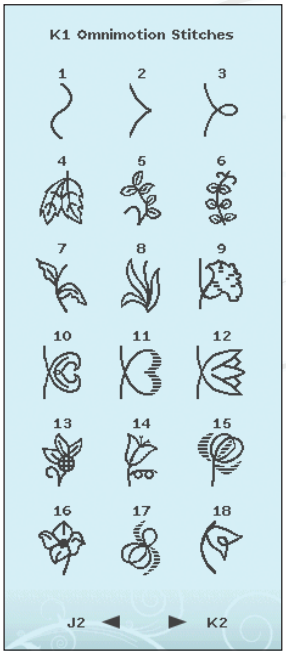


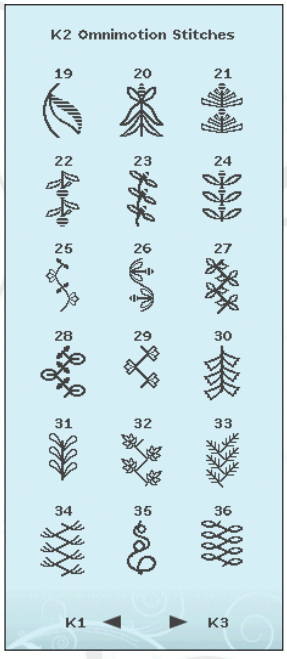
J - Vintage Stitches

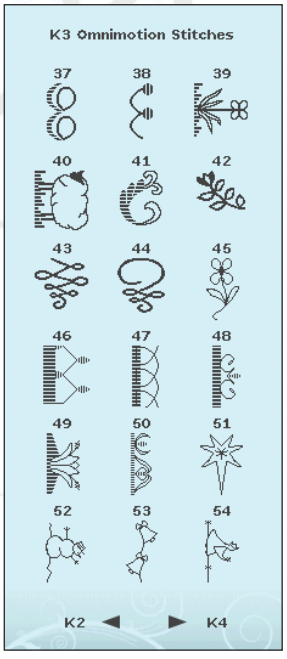


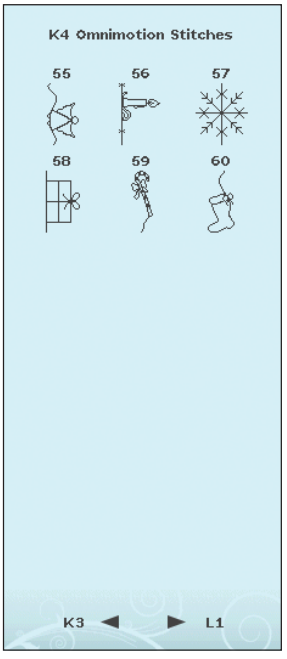


K - Omnimotion Stitches

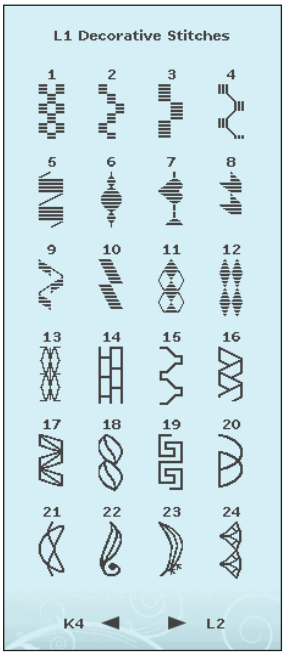


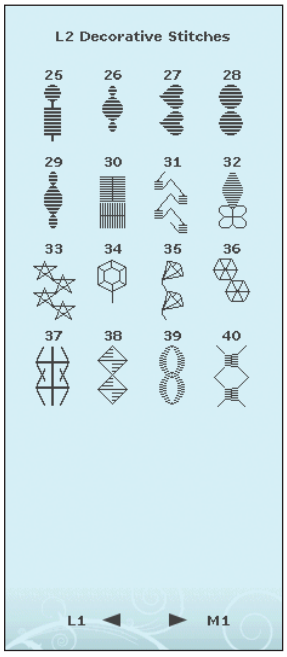




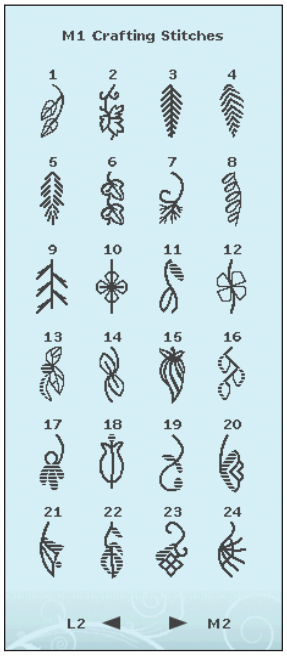


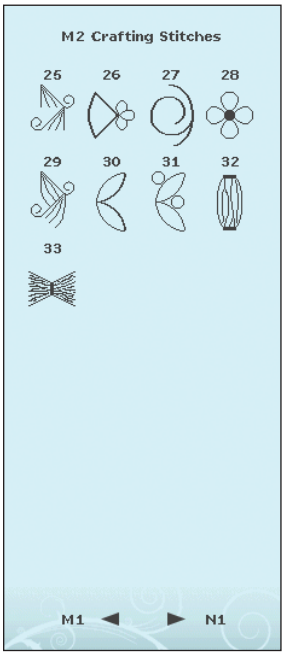
L - Decorative Stitches



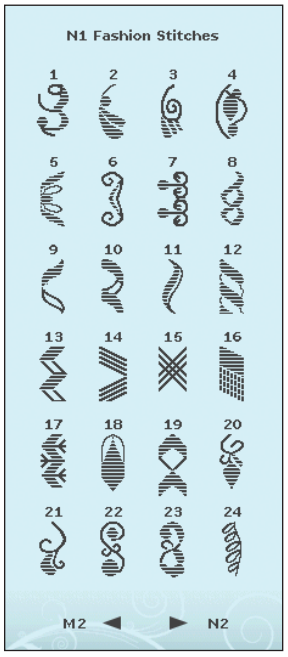


M - Crafting Stitches

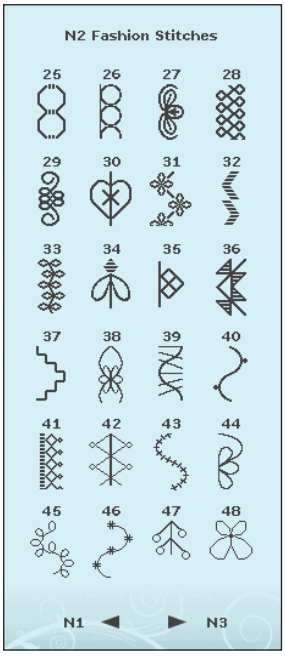


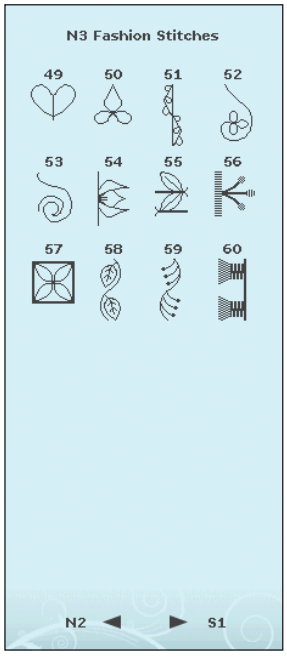


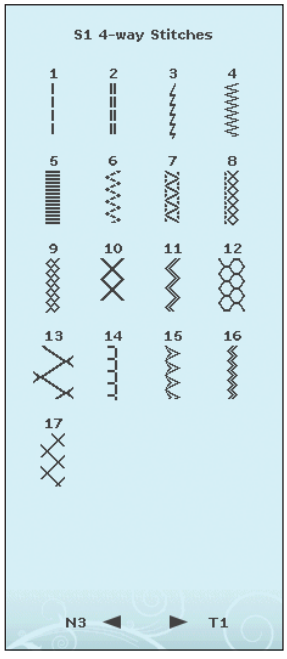
N - Fashion Stitches



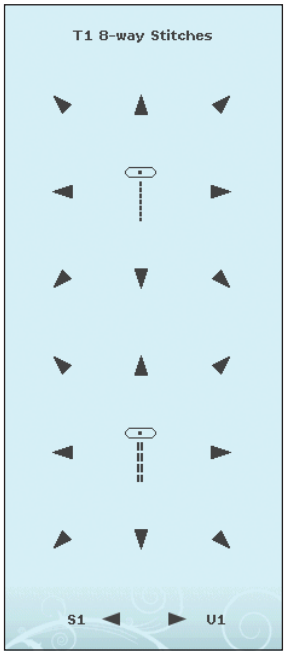
S - 4-way Stitches



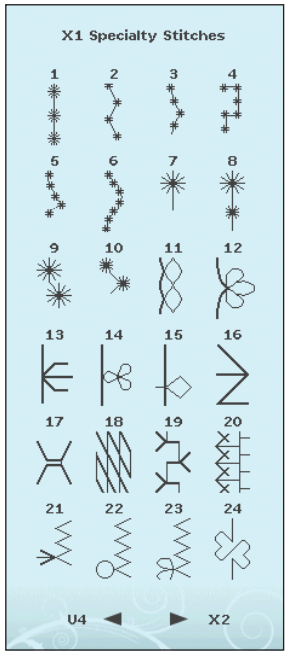




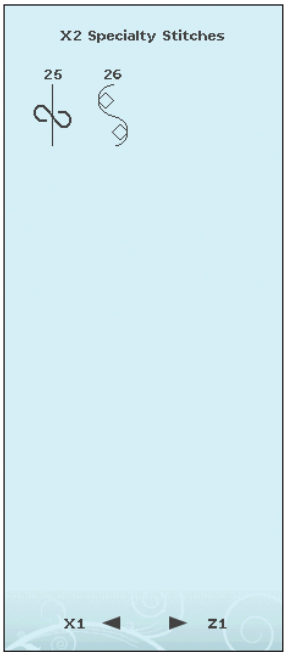
T - 8-way Stitches

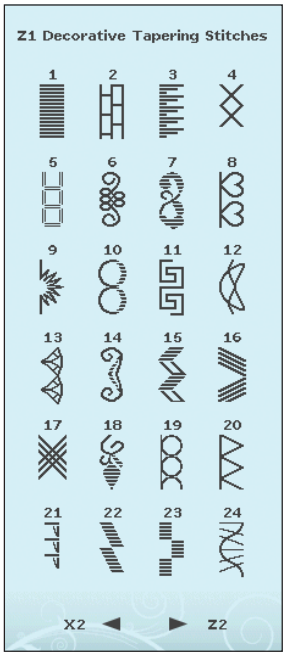


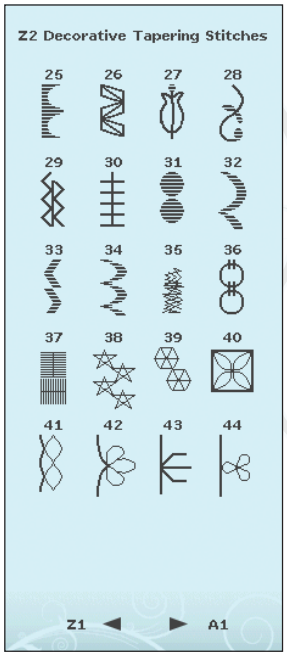
X - Specialty Stitches



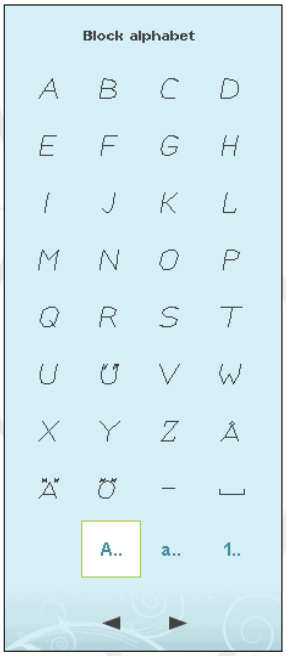
Z - Decorative Tapering Stitches



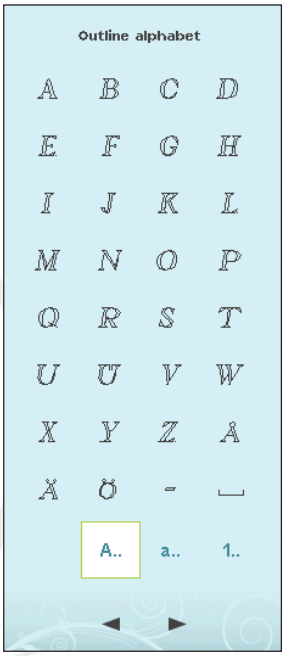




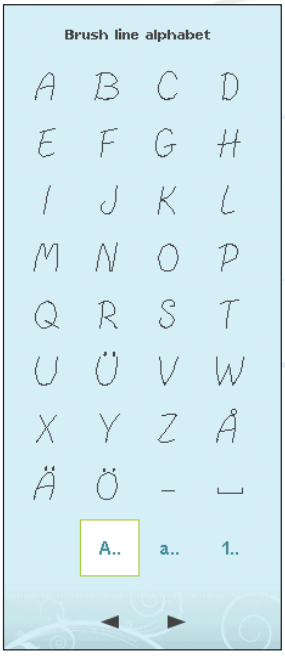
Block Alphabet



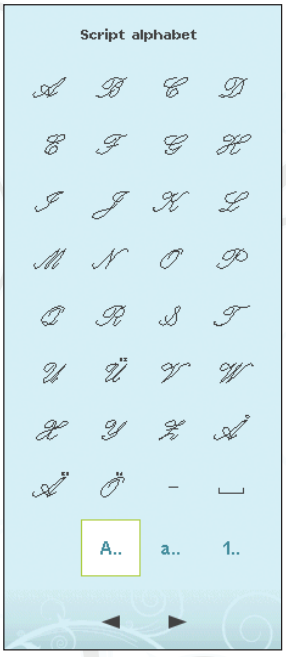
Outline Alphabet



Brush Line Alphabet

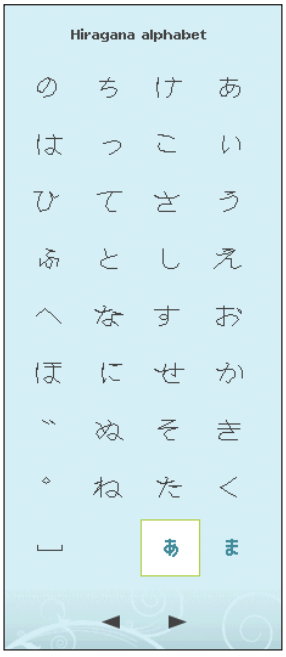


Script Alphabet



Cyrillic Alphabet

Hiragana Alphabet



2 Set Up

UNPACKING

1. Place the box on a steady, flat surface. Lift off the machine carrying case. Lift your machine out of the box and remove the outer packaging.
2. Remove all other packing material and the plastic bag.

CONNECT THE POWER CORD AND FOOT CONTROL

Among the accessories you will find the power cord and the foot control.

Note: Before plugging in the foot control, check to ensure that it is type "FR5" (see underside of foot control).

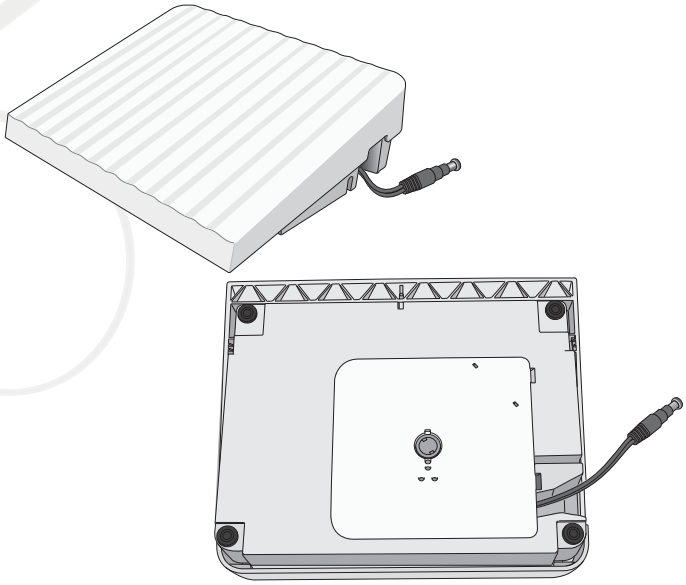
1. Pull out the cord from the foot control. Connect the foot control cord to the front socket on the bottom right side of the machine (1).
2. Connect the power cord to the rear socket on the bottom right side of the machine (2).
3. Press the ON/OFF switch to ON to turn on power and light (3).

For the USA and Canada

This sewing machine has a polarized plug (one blade wider than the other). To reduce the risk of electric shock, this plug is intended to fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not modify the plug in any way.

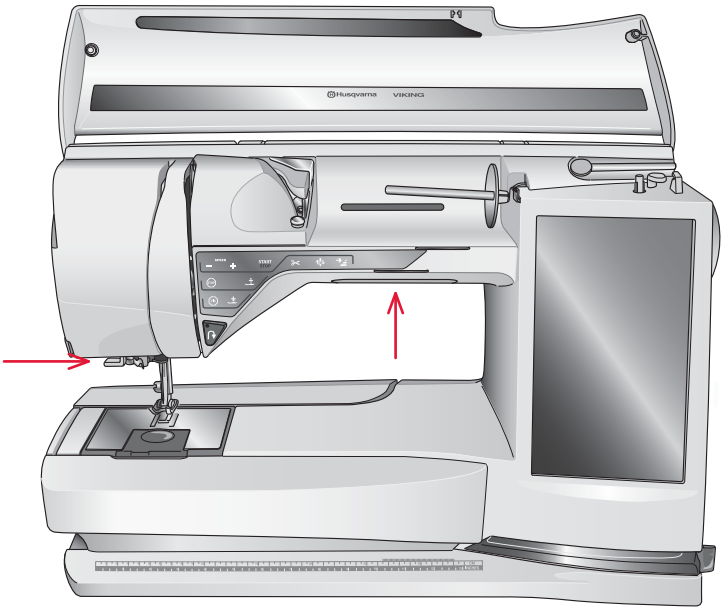
PACK AWAY AFTER SEWING

1. Press the ON/OFF (3) switch to OFF.
2. Unplug the cord from the wall socket and then from the machine (2).
3. Unplug the foot control cord from the machine (1). Pull the cord gently and release. The cord will retract itself into the foot control.
4. Place all accessories in the accessory tray. Slide the tray on to your machine around the free arm.
5. Place the foot control in the space above the free arm.
6. Place the hard cover over your machine.



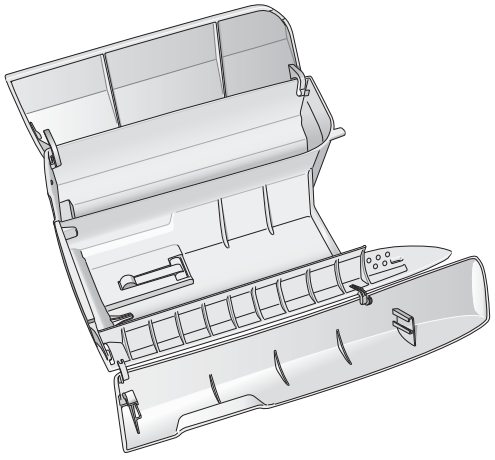
ADJUSTABLE E LIGHT™

Your machine has LED lights which distribute the light evenly over the sewing area and eliminate shadows. You can adjust the intensity and color of the light in the SET Menu.



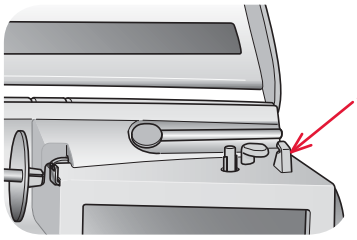
FREE ARM

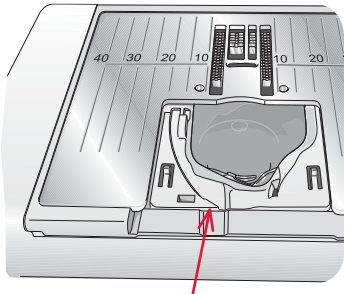
To use the free arm, slide off the accessory tray. When attached, a hook keeps the accessory tray locked to the machine. Remove the tray by sliding it to the left.

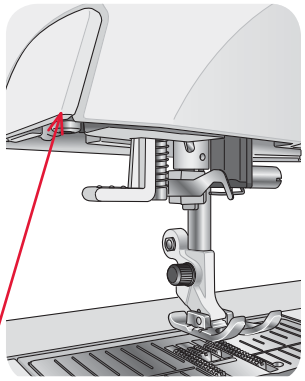


THREAD CUTTER

There are three thread cutters on your machine. The first one is close to the bobbin winder spindle (A) for cutting the thread before and after winding. The second one is next to the bobbin area (B) for cutting the bobbin thread after placing it in the machine. The third one is on left side of the machine (C) for manually cutting top and bobbin threads. Pull both threads into the cutter from the back to the front and pull down quickly.

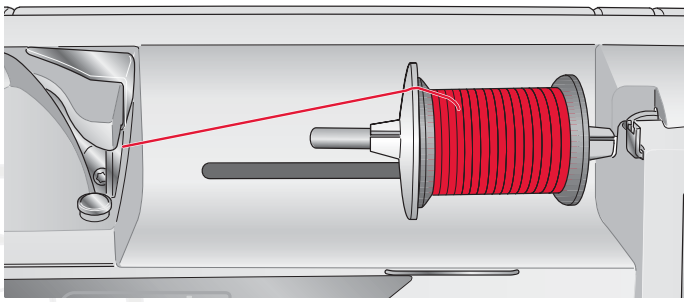






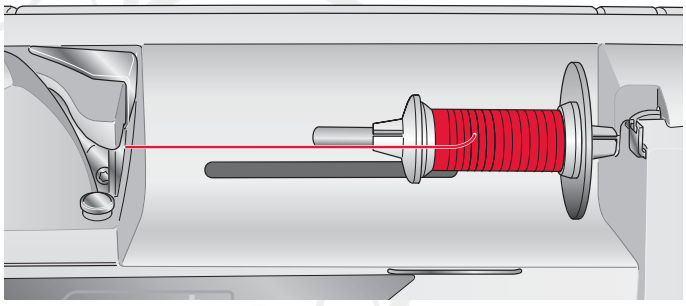
SPOOL PINS

Your machine has two spool pins; a main spool pin and an auxiliary spool pin. The spool pins are designed for all types of thread. The main spool pin is adjustable and can be used both in a horizontal position (the thread reels off the spool) and a vertical position (the thread spool rotates). Use the horizontal position for regular sewing threads and the vertical position for large spools or specialty threads.



HORIZONTAL POSITION

Place a spool cap and the thread spool on the spool pin. Make sure that the thread reels over the top. Slide on a second spool cap.

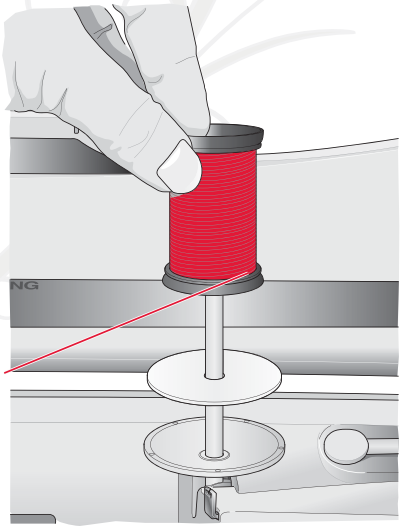


Use a spool cap slightly larger than the thread spool. For narrow thread spools, use a smaller spool cap in front of the spool. For large thread spools, use a larger spool cap in front of the spool.

The flat side of the spool cap should be pressed firmly against the spool. There should be no space between the spool cap and the thread spool.

VERTICAL POSITION

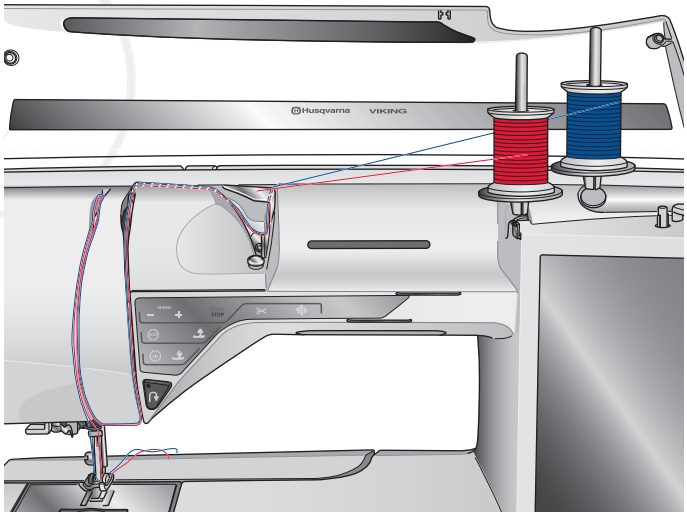
Raise the spool pin to the vertical position. Slide on the large spool cap. For spools smaller than the medium size spool cap, place a felt pad under the thread spool to prevent the thread from reeling off too fast. Place thread spool on the spool pin.



Do not place a spool cap on top of the vertical spool pin as it may prevent the spool from rotating.

AUXILIARY SPOOL PIN

The auxiliary spool pin is used when winding a bobbin from a second spool of thread or for a second spool when sewing with a twin needle.



Raise the auxiliary spool pin. Slide on a large spool cap and place a felt pad under the thread spool. Place thread spool on auxiliary spool pin.

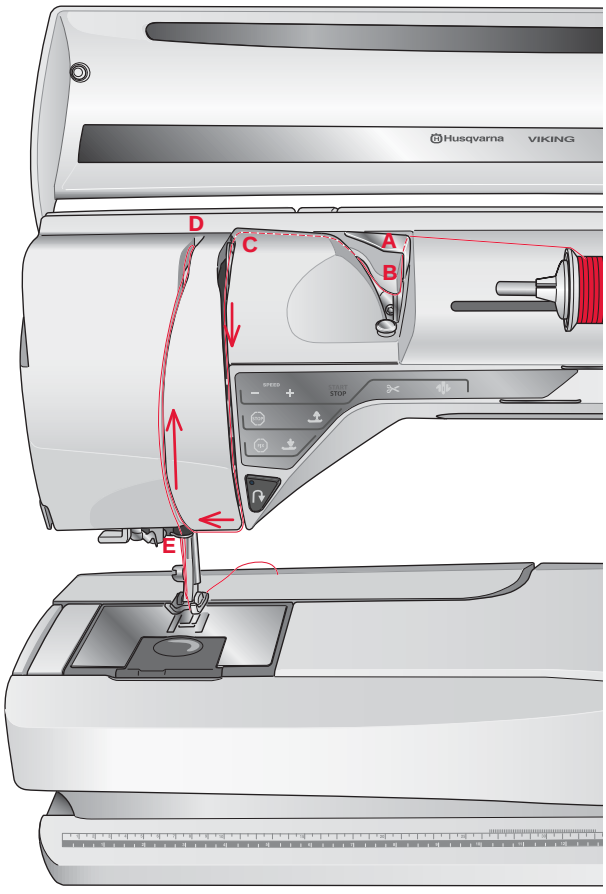
Note: When sewing with two needle threads, deactivate deLuxe™ Stitch System button in Machine Settings.

THREADING THE UPPER THREAD

Make sure that the presser foot is raised and the needle is in the up position.

HORIZONTAL SPOOL PIN

1. Hold the thread near the spool using your right hand.
2. Use your left hand to bring the end of the thread over and behind the Pre-Tension Thread guide (A) and under the thread guide (B). Bring the thread between the thread tension discs (C).
3. Continue threading in the direction indicated by the arrows. Bring the thread from the right when threading into the slot on the take-up lever (D).
4. Take the thread down into the last thread guide (E) just above the needle.



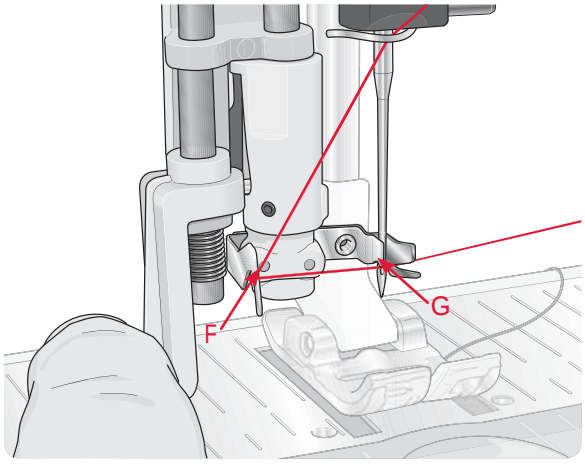
NEEDLE THREADER

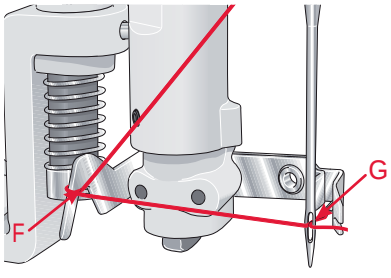
The needle threader allows you to thread the needle automatically. The needle must be in the up position to use the Built-In needle threader. We also recommend lowering the presser foot.

1. Use the handle to pull the needle threader all the way down. The threader hook (G) swivels through the needle eye.
2. Place the thread from the back over the hook (F) and under the thread hook (G).
3. Let the needle threader gently swing back. The hook pulls the thread through the needle eye and forms a loop behind the needle. Pull the thread loop out behind the needle.

Note: The needle threader is designed to be used for size 70-120 needles. You cannot use the needle threader for needles size 60 or smaller, the wing needle, twin needle, triple needle or when the Sensor One-Step buttonhole foot is attached. There are also some optional accessories that require manual threading of the needle.

When threading the needle manually, make sure that the needle is threaded from front to back. The bobbin cover can be used as a magnifying glass to make threading easier.

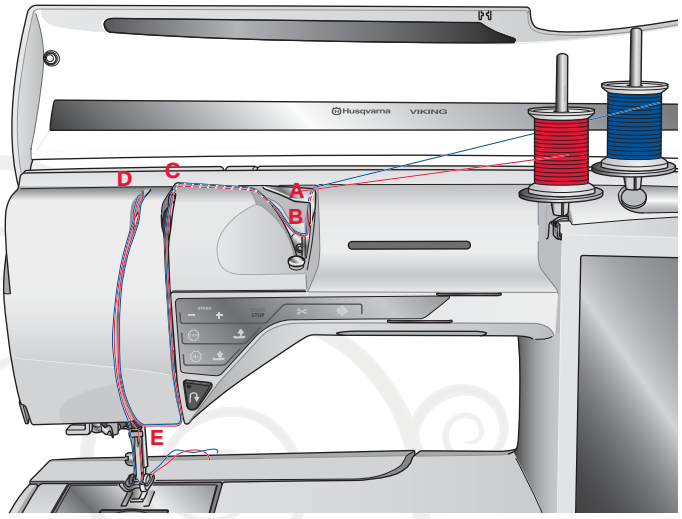


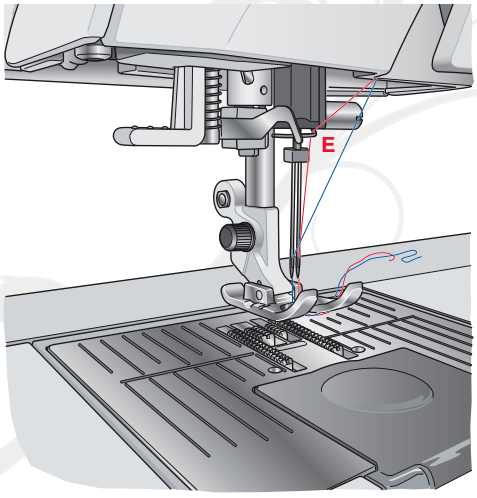


THREADING FOR TWIN NEEDLE

Replace the sewing needle with a twin needle. Make sure the presser foot is raised and the needle is in the up position.

1. Raise the horizontal spool pin to the vertical position. Raise the auxiliary spool pin to the vertical position. Slide a large spool cap and a felt pad on each one. Place the thread spools on the spool caps.
2. Bring the thread over and behind the Pre-Tension Thread guide (A) and under the thread guide (B). Follow the thread slot and place the thread between the thread tension discs (C). Make sure that one thread is on each side of the tension discs.
3. Thread down through the right-hand threading slot and then upwards through the left-hand threading slot.
4. Bring the threads from the right into the take-up lever (D) and down in the left-hand threading slot. Make sure that one thread is inside the needle thread guide (E) and the other one outside. Also make sure that the threads do not become twisted together.





THREAD SENSOR

If the upper thread breaks or bobbin thread runs out, the machine stops and a pop-up message appears on the screen.

If upper thread breaks: Re-thread the machine and touch OK on the pop-up message. If bobbin thread runs out, replace it with a full bobbin and continue sewing.

BOBBIN WINDING

BOBBIN WINDING THROUGH THE NEEDLE

Make sure that the presser foot and the needle are in the up position.

1. Place an empty bobbin on the bobbin spindle on the top of the machine. The bobbin only fits on one way, with the logo facing up. Use only original HUSQVARNA VIKING® bobbins.
2. Thread the machine with the main spool pin in the horizontal position.

Note: If the thread spool is too large to be in horizontal position, wind the bobbin as described under "Winding Specialty Threads" below.

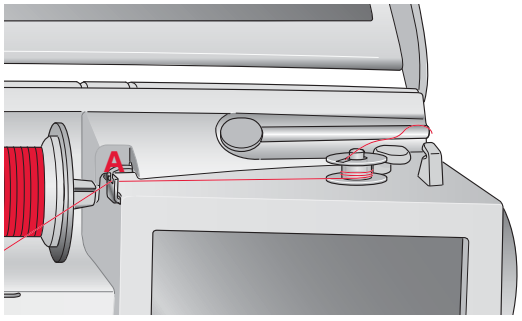
3. Bring the thread up from the needle, under the presser foot and up to the right through thread guide (A).

   Note: Use a metal presser foot when bobbin winding from the needle.

4. Guide the thread through the hole in the bobbin from the inside to the outside.
5. Push the bobbin winder lever towards the bobbin to wind. A pop-up message appears on screen. To adjust winding speed drag the arrow on the slider with your stylus. Stop and start the bobbin winding with the on-screen buttons. Hold the end of the thread firmly when starting to wind. Once the bobbin begins to wind, cut the excess thread.

Note: It is important that you cut the thread end close to the bobbin.

When the bobbin is full, the bobbin winder lever will move back and the winding will stop automatically. The pop-up message closes. Remove the bobbin and cut the thread using the bobbin winding thread cutter.



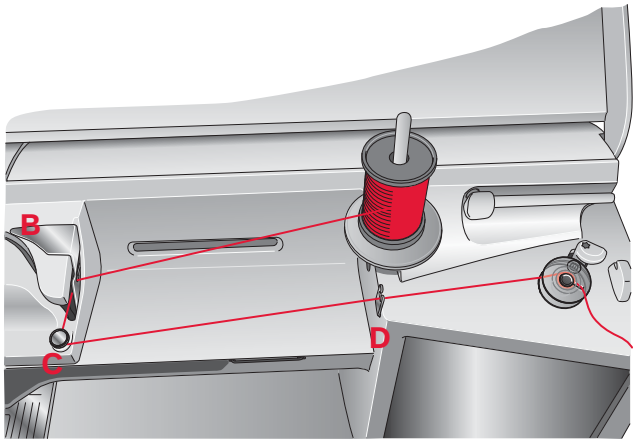
Note: When using earlier version of HUSQVARNA VIKING® bobbins that do not have a hole, wind a few turns of thread clockwise on the bobbin to get started.

WINDING SPECIALTY THREADS

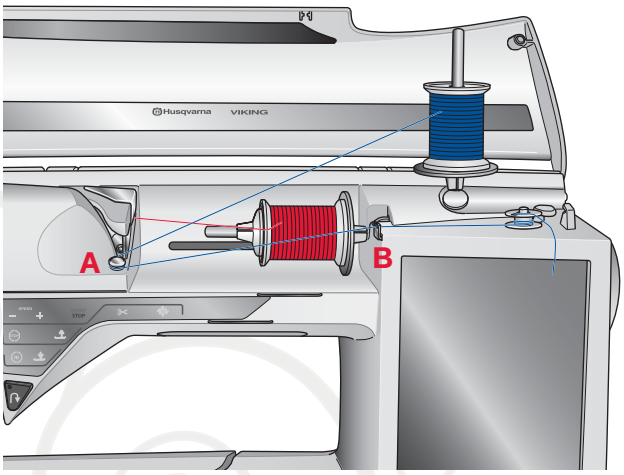
We do not recommend winding speciality threads such as "invisible" or other stretchy threads, metallic or flat metallic threads through the needle.

Always wind these threads at minimum speed.

1. Place an empty bobbin on the bobbin spindle at the front of the machine. The bobbin only fits on one way, with the logo facing up. Use only original HUSQVARNA VIKING® bobbins.
2. Place the large spool cap and a felt pad under the spool on the main spool pin set in the vertical position.
3. Bring the thread over the Pre-Tension Thread guide (B) and down around the thread tension disc (C), then through thread guide (D) as illustrated.
4. See Bobbin Winding through the needle, step 4-5.



BOBBIN WINDING WHILE EMBROIDERING OR SEWING

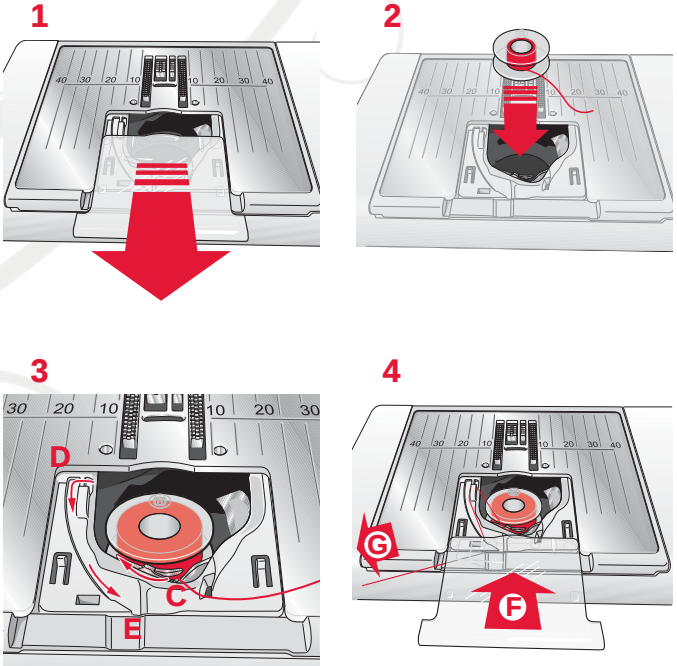


1. Raise the auxiliary spool pin. Place the large spool cap, felt pad and thread spool on the spool pin.
2. Bring the bobbin thread around the thread tension disc (A) and through the thread guide (B) as illustrated.
3. Guide the thread through the hole in the bobbin from the inside to the outside.
4. Push the bobbin winder lever towards the bobbin to wind. A pop-up message appears on screen. To adjust winding speed drag the arrow on the slider with your stylus. Stop and start the bobbin winding with the on-screen buttons. Hold the end of the thread firmly when starting to wind.

   When the bobbin is full, the bobbin winder lever will move back and the winding willl stop automatically. The pop-up message closes. Remove the bobbin and cut the thread using the bobbin winding thread cutter.

Note: Make sure that the thread does not touch the cap of the horizontal spool pin when winding the bobbin. If it does, place the cap and spool higher on the vertical spool pin.

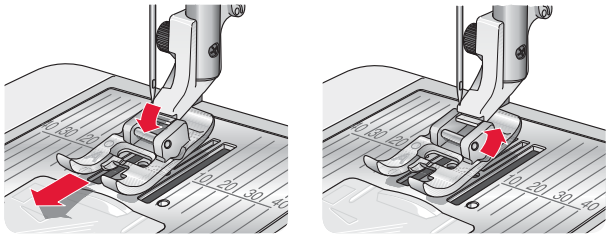
INSERTING THE BOBBIN



1. Remove the bobbin cover by sliding it towards you.
2. Place the bobbin in the bobbin case. It drops in only one way with the logo facing up. The thread unreels from the left of the bobbin. The bobbin will then rotate counter-clockwise when you pull the thread.
3. Place your finger on the bobbin to keep it from turning as you pull the thread firmly to the right and then to the left into the tension spring (C) until it “clicks” into place.
4. Continue threading around (D) and to the right of the thread cutter (E). Slide on the bobbin cover (F). Pull the thread to the left to cut (G).

PRESSER FOOT

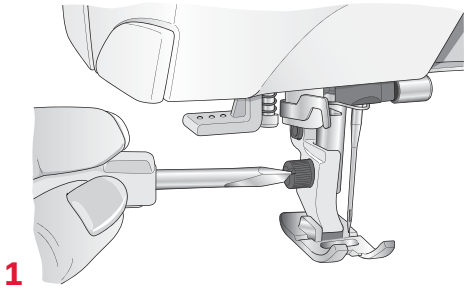
CHANGING THE PRESSER FOOT



1. Make sure that the needle is in the highest position. Pull the presser foot down and towards you.
2. Line up the cross pin on the foot with the gap in the presser foot ankle.
3. Push the foot into the clip until the foot snaps into place.

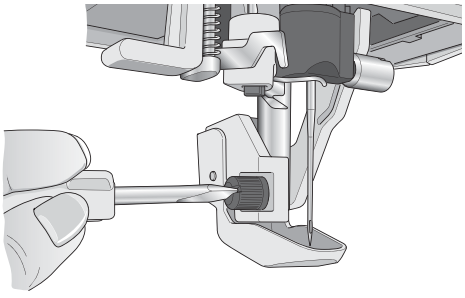
ATTACHING THE SENSOR Q-FOOT

1. Using the screwdriver, remove the presser foot ankle.



1

2. Place the Sensor Q-foot from behind, and lower the needle into the opening of the foot by turning the handwheel towards you. Position the foot onto the presser foot bar so that the hole on the foot matches the hole on the presser foot bar. The arm of the presser foot should rest on top of the needle screw. Insert the screw and tighten the screw with a screwdriver.



2

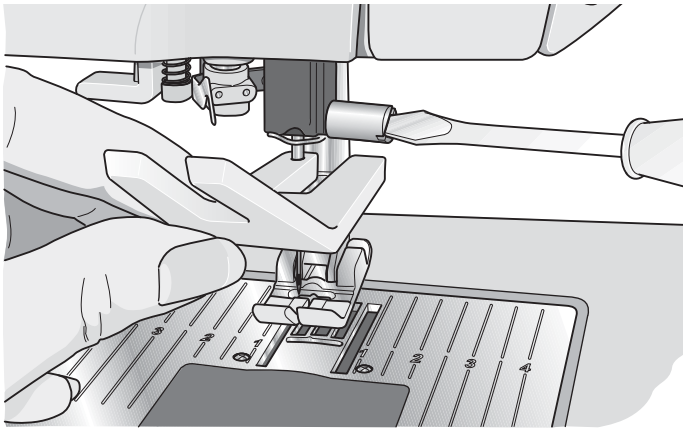
EXCLUSIVE SENSOR SYSTEM™

Thanks to the Sensor Foot Pressure, the presser foot actually senses the thickness of fabric, embroidery or stitching to sew over it smoothly and evenly with perfect, fabric feeding.

To see the actual setting of the presser foot pressure for the selected fabric and adjust the presser foot pressure for specialty techniques, go to the SET Menu (see page 3:6).

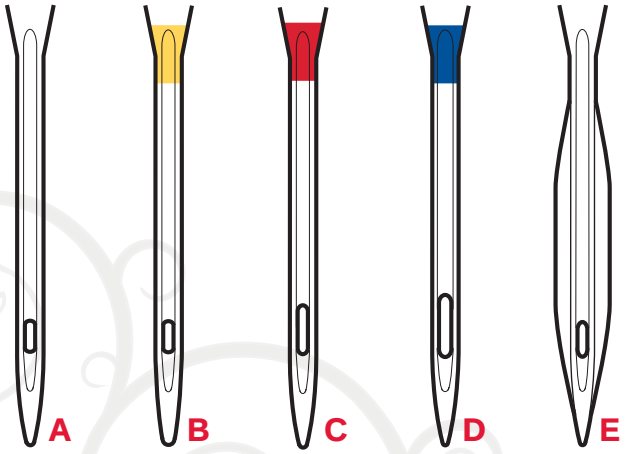
CHANGING THE NEEDLE

1. Use the hole in the multipurpose tool to hold the needle.
2. Loosen the needle screw with the screwdriver.
3. Remove the needle.
4. Insert the new needle using the multipurpose tool. Push the new needle upwards with the flat side away from you until it will go no further.
5. Tighten the needle screw with the screwdriver.



NEEDLES

The sewing machine needle plays an important role in successful sewing. Use only quality needles. We recommend needles of system 130/705H. The needle package included with your machine contains needles of the most frequently used sizes.



Universal needle (A)

Universal needles have a slightly rounded point and come in a variety of sizes. For general sewing in a variety of fabric types and weights.

Stretch needle (B)

Stretch needles have a special scarf to eliminate skipped stitches when there is a flex in the fabric. For knits, swimwear, fleece, synthetic suedes and leathers.

Embroidery needle (C)

Embroidery needles have a special scarf, a slightly rounded point and a slightly larger eye to avoid damage to thread and materials. Use with metallic and other specailty threads for embroidery and decorative sewing.

Denim needle (D)

Denim needles have a sharp point to penetrate tightly woven fabrics without deflecting the needle. For canvas, denim, microfibers.

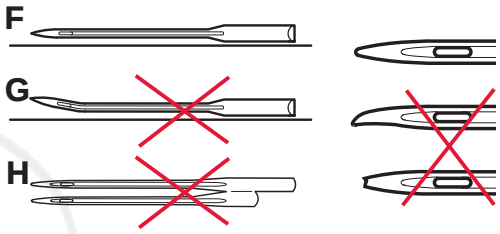
Wing needles (E)

The Wing needle has wide wings on the side of the needle to poke holes in the fabric when sewing entredeux and other hemstitches on natural fiber fabrics.

Note: Change the needle often. Always use a straight needle with a sharp point (F).

A damaged needle (G) can cause skipped stitches, breakage or snapping of thread. A damaged needle can also damage the needle plate.

Do not use asymmetrical twin needles (H) since they may damage your sewing machine.



THREADS

There are many threads on the market today developed for different purposes.

All purpose sewing thread

All purpose sewing thread is made of synthetic, cotton or cotton covered polyester. This type of thread is used for sewing garments and projects.

Embroidery thread

Embroidery thread is made of various fibers: rayon, polyester, acrylic or metallic. These threads create a smooth glossy appearance for embroidery and other decorative stitching.

When embroidering, use embroidery bobbin thread because it is a fine weight and will not build up under embroidery.

Note: When using a metallic or a flat film thread for embroidering, you may need to use a needle with a larger eye and lower the embroidery speed. Thread the sewing machine with the spool in the vertical position.

Transparent thread

Transparent thread, also called monofilament thread, is single clear synthetic thread. It is used for quilting and other decorative sewing. Thread the sewing machine with the spool in the vertical position. When winding a bobbin, wind at slow speed and wind the bobbin half full.

Note: Some fabrics have excess dye which can cause discoloration on other fabrics or on your sewing machine. This discoloration may be very difficult or impossible to remove.

Fleece and denim fabric, especially red and blue, often contain excess dye.

If you suspect that your fabric/ready-to-wear garment contains a lot of excess dye, always pre-wash it before sewing/embroidering to prevent discoloration of your machine.

STABILIZERS

Tear-away stabilizers

Tear-away stabilizers are used with stable woven fabrics. Place underneath fabric for decorative stitching or hoop with the fabric when embroidering. Tear away excess stabilizer after stitching.

Iron-on tear-away

Iron-on tear-away is a totally stable stabilizer that has a slick side that will iron on to fabric. It is recommended for knits and all unstable fabrics. Fuse it to the wrong side of the fabric before decorative stitching or hooping. Tear away excess stabilizer after stitching.

Cut-away stabilizer

Cut-away stabilizer does not tear so the excess has to be cut away. It is recommended for knits and all unstable fabrics, especially for hoop embroidery.

Water soluble stabilizer

Water soluble stabilizer is placed on top of the fabric when embellishing/embroidering napped and looped fabrics such as terry cloth. When embroidering cutwork, use it underneath the fabric. Place your work in water to dissolve the excess stabilizer. It is available in different thicknesses.

Disintegrating stabilizer

Disintegrating stabilizer is a stable, loosely woven fabric that is used for techniques such as cutwork and to crochet off the fabric edge. The stabilizer disappears with heat.

Sticky stabilizer

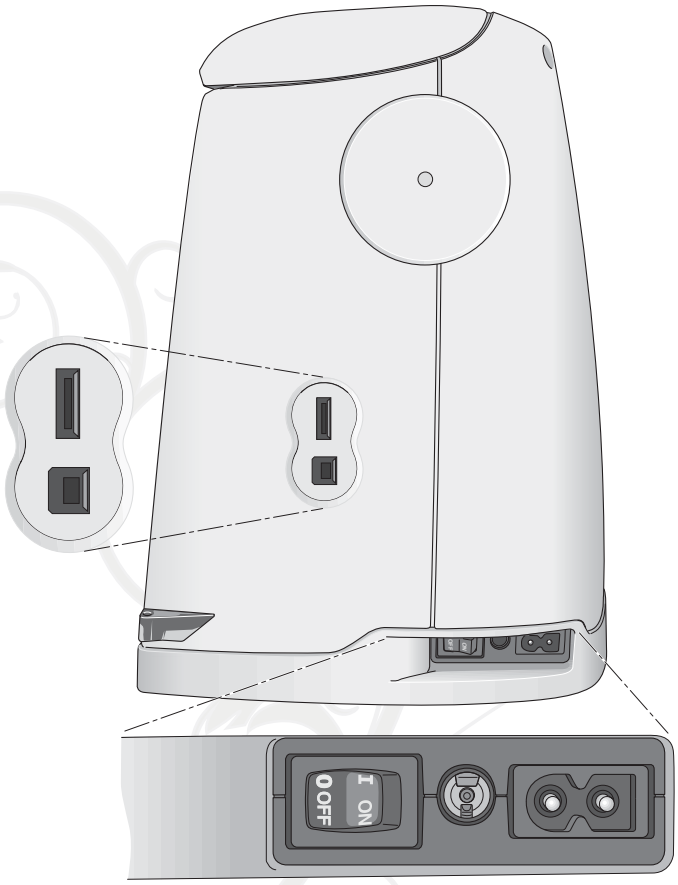
Sticky stabilizer is used for hoop embroidery when the fabric is too delicate or too small to be hooped. Hoop the sticky stabilizer with the paper side up. Remove the paper and stick the fabric onto the sticky surface. Tear away sticky stabilizer after stitching.

PICTOGRAM™ PEN

Use an air or water soluble marking pen for embroidery and Pictograms on all types of fabrics. The color disappears after a few hours. You can also use cold water to completely remove the markings. Make sure that all markings are removed before ironing or washing with soap or detergent.

USB PORTS

Your machine has two USB ports: one to connect the sewing machine to your computer, and one to connect either your USB embroidery stick, optional CD-drive, optional USB hub or optional mouse.



USB EMBROIDERY STICK

Your machine comes with a USB embroidery stick. Use the stick to store designs and other files, or to move files between the computer and sewing machine.

Connect to and remove from the USB port

Insert the USB embroidery stick or other devices in the upper port. The USB plugs can only be inserted one way – do not force them into the ports!

The USB PC cable packed with your machine (P/N:412 62 59-04) plugs in to the lower port. No other cable should be used in this port. Connect the other end of the cable to your PC.

Note: Install the Embroidery Machine Communication CD before connecting the machine to your PC.

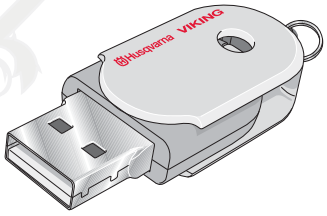
To remove, carefully pull the USB embroidery stick or the plug of the USB cable out straight.

Using the USB embroidery stick

The External Device icon in File Manager is only activate when a device is connected to the machine USB port. When loading from or saving to the USB embroidery stick an hourglass appears on the screen.

Note: Do not remove the USB embroidery stick when the hourglass is shown on the screen or while the file manager is shown. Removing the stick at that time can damage the files on your USB embroidery stick.

Note: The USB embroidery stick provided with the machine can be left in the machine when putting on the hard cover. Make sure that the cover of the USB stick is turned downwards.



External Device icon

CONNECTING THE MACHINE TO YOUR COMPUTER

Your machine comes with an Embroidery Machine Communication CD (attached inside the back cover of this User´s Guide). This CD should be installed before the machine is connected to your computer for the first time.

When the software on the CD is installed and the machine and the computer are connected, via the USB cable, you can easily move designs or other files to your machine.

Note: Your computer must be running Windows® 7/Vista or Windows® XP.

5D™ EMBROIDERY SOFTWARE

Computer Connection

The Embroidery Machine Communication module is automatically installed. This is required to use the Send To features in any 5D™ Embroidery System module, and Send Multiple in 5D™ Organizer.

5D™ QuickFont

Create font files (.vf3) for your HUSQVARNA VIKING® DESIGNER DIAMOND *deLuxe*™ sewing and embroidery machine from most TrueType® or OpenType® fonts on your computer.

5D™ Organizer

Find your designs and pictures easily. Browse them in different sizes and print selected groups as full worksheets or thumbnail catalogs. Convert your designs between major embroidery formats, to pictures or desktop wallpaper for your computer.

INSTALLING YOUR SOFTWARE

If you own other HUSQVARNA VIKING® 5D™ Embroidery System software, you may need to install the 5D™ Embroidery System 9.2 (or higher version) Update instead of installing the Embroidery Machine Communication Software. Then add the HUSQVARNA VIKING® DESIGNER DIAMOND *deLuxe*™ sewing and embroidery machine from the Machine Manager in 5D™ Configure, as described in Step 5. Continue with Step 6 to install hardware drivers.

1. Ensure your embroidery machine is disconnected from your computer.
2. Ensure you are logged onto your computer with a user name that is an administrator on the computer, then install your software from the CD provided.
3. Insert your CD. In Windows® 7/ Vista, an AutoPlay message may appear, asking what you wish to do with the CD. Click the option to Run Menu.exe. Select your desired language, and select the "Install Embroidery Machine Communication Software" option from the menu.
4. Follow the instructions in the Installation Wizard. When asked to enter your Installation Code, enter the following number: 9200.
5. In the 5D™ Configure Wizard under MyMachines select your machine type: HUSQVARNA VIKING® DESIGNER DIAMOND *deLuxe*™ (or Type L) sewing and embroidery machine. Under Send I or Send 2 select HUSQVARNA VIKING® DESIGNER DIAMOND *deLuxe*™ (or Type L) sewing and embroidery machine. It is recommended to set the Embroidery Machine Communication module to start automatically when starting Windows.

Note: You can find more detailed information about the installation and registration in the 5D™ Embroidery System Getting Started Guide, in the folder 'UserGuides' on the CD.

REGISTER YOUR 5D™ SOFTWARE

After finishing the software installation, you can select to register your software by clicking on Register in the menu. Create an account and enter your details to receive customized 5D™ newsletters.

Important!

During the registration process you will be given an option to enter which sewing and embroidery machine(s) you own. This is NOT a product or warranty registration. The machine information entered here is only used to customize 5D™ Software newsletters. For product and warranty registration, go to the HUSQVARNA VIKING® web site at www.husqvarnaviking.com.

To register later, select the Register button in 5D™ Configure at any time.

INSTALL HARDWARE DRIVERS AND CONNECT THE EMBROIDERY MACHINE

Windows® 7/Vista

6. From the main menu of your CD, click the Install Drivers option for your version of Windows® 7/ Vista.

Note: If the following User Account Control message appears: 'A program needs your permission to continue', click the Continue button.

7. During the installation process a security message may appear, asking 'Would you like to install this device software?' Click Install to continue. Click Finish on the last page.
8. You may now connect your embroidery machine to your computer. A message will appear and you will be informed when your embroidery machine is ready to be used.

Windows® XP

6. From the main menu of your CD, click the Install Drivers option for Windows® XP.

Drivers are only available for 32-bit Windows® XP.

7. During the installation process, if existing drivers are found, you will be informed that drivers have been removed and that the computer must be restarted. Click OK to restart the computer. Installation will resume after the computer has restarted.
8. At the end of the installation, you will be prompted to connect your embroidery machine. Click Finish on the last page. Leave your 5D™ Embroidery System software CD in your computer.
9. The Found New Hardware wizard will appear. Select 'No, not at this time' on the first page, then click Next. Select 'Install the software automatically', then click Next. A warning will appear that the drivers are not signed. This is normal and should not be a cause for concern. Click Continue Anyway, and the driver installation will complete automatically.

HOW TO LAUNCH THE PROGRAMS

Shortcuts on the Desktop

1. Double-click on the Shortcut to the 5D™ Embroidery System program folder. A list of the programs appears.
2. Double-click on 5D™ Organizer, 5D™ QuickFont or 5D™ Configure to launch it.

Alternatively use the Start Menu to open modules under Start, All Programs, 5D™ Embroidery System.

EMBROIDERY MACHINE COMMUNICATION MODULE

The Embroidery Machine Communication module must be active (or) to use your embroidery machine with your computer. The icons are found in the lower right corner of your computer screen. If the Embroidery Machine Communication module is not active, it may be started from the Send tab of 5D™ Configure.

Viewing and Printing PDF Guides

To find all the Reference and Sample Guides for your 5D™ Embroidery System software, go to Start, All Programs, 5D™ Embroidery System then choose Reference Guides or Sample Guides. Choose the relevant folder, then select the desired PDF Guide. Double-click on the desired name to launch the relevant .pdf file if you have Adobe Acrobat installed on your computer. To install the Acrobat Reader, insert the 5D™ Embroidery System CD and select that option from the menu that appears.

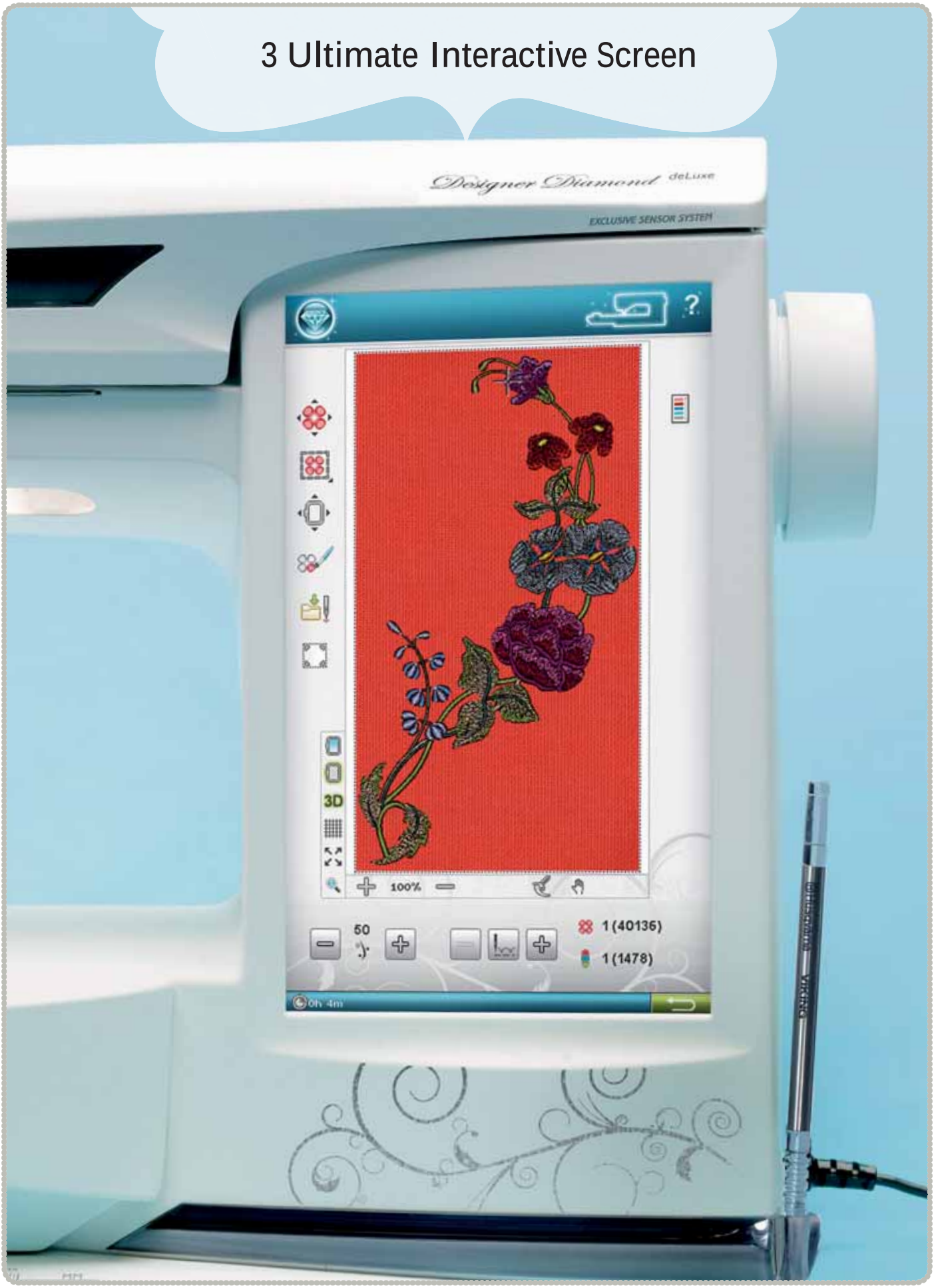
HOW TO UPDATE YOUR MACHINE

Be sure to consult the web site at www.husqvarnaviking.com and/or your local authorized HUSQVARNA VIKING® dealer for updates and upgrades for your machine and User's Guide.

Go to Machine updates on the HUSQVARNA VIKING® web site at www.husqvarnaviking.com to find information about available updates.

You can update your machine using the USB embroidery stick or the USB cable packed with your machine (P/N:412 62 59-04).

3 Ultimate Interactive Screen



ULTIMATE INTERACTIVE SCREEN

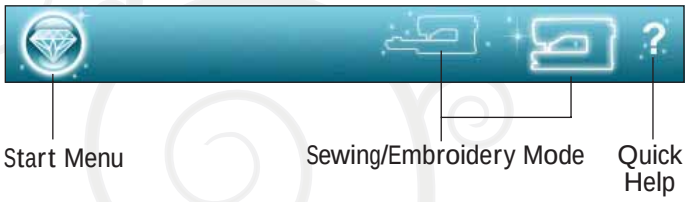
This section of the User´s Guide will help you navigate on the Ultimate Interactive Screen. We will start at the top of the screen and work our way down.

HOW TO USE THE SCREEN

The screen is very easy to use - just touch it with your stylus to make your choices.

TOOLBAR

On this toolbar you will find the Start Menu icon, Sewing/Embroidery Mode icon and the Quick Help icon.



Start Menu icon

Touch the Start Menu icon to open the Extended toolbar. The Extended toolbar is used for selecting and activating different windows. The contents of the Extended toolbar will change depending on which mode you are in.

Sewing/Embroidery Mode icon

Toggle between the Sewing Mode and the Embroidery Mode by using the Sewing/Embroidery Mode icon. The icon for the active mode is highlighted and enlarged.

Embroidery Mode

When entering Embroidery Mode, Embroidery Edit will be active. Here you will be able to change the appearance of your design. You can change the colors, size, shape, position and rotation of your designs. You can also combine, save and delete designs. You can edit your designs with or without the embroidery unit attached.

To embroider your design, change from Embroidery Edit to Embroidery Stitch-Out by touching the GO! icon in the lower right corner of the Ultimate Interactive Screen. The embroidery unit must be attached.

In Embroidery Stitch-Out you will find functions that are useful when embroidering.

QUICK HELP

Touch the Quick Help icon in the upper right corner of the screen. The icon flashes indicating that Quick Help is active. Touch the icon and the area on the screen you want information about. A pop-up message gives a short explanation. Touch OK to close the pop-up message and exit Quick Help.

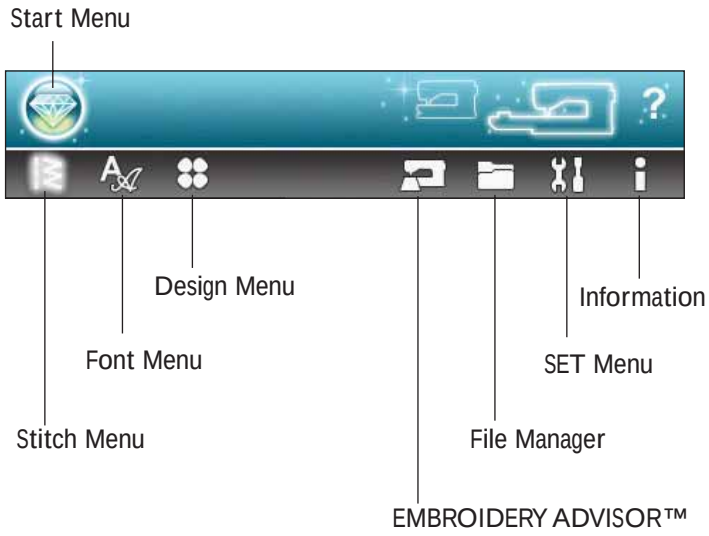
When a USB mouse is connected, it is even easier to use the built-in Quick Help. Place the cursor over the icon you wish to know more about and right click on the mouse. Quick Help will pop-up instantly.

EXTENDED TOOLBAR

Main functions in the Sewing/Embroidery Mode toolbar

To activate any function, touch the Start Menu icon to open the Extended toolbar. When the Extended toolbar is open, you can activate the different functions. Touch the function you want to activate and make adjustments.

The look of the Extended toolbar will change depending on whether Sewing Mode or Embroidery Mode is active.



STITCH MENU

When opening this menu you will find several different stitch menus in the drop down list:

A - Utility Stitches: Stitches for garment sewing and mending.

B - Buttonhole Stitches: Different styles of buttonholes, eyelets and button sewing. For best result use the Sensor One-Step Buttonhole Foot as advised on screen.

C - Pictogram Stitches: Pictogram satin elements to program original satin stitch designs.

D - Heirloom Stitches: For hemstitching, smocking and sewing on lace and trims.

E - Quilt Stitches: Stitches for all types of quilting techniques.

F - Appliqué Stitches: For sewing appliqués with different effects.

G - Children Stitches: Stitches suitable for sewing on children's clothes and projects.

H - Scallop Stitches: Create scallop details and finish edges with beautiful scallop stitches.

J - Vintage Stitches: A selection of quilt stitches for crazy patch quilting and decorative stitching.

K - Omnimotion Stitches: Program these stitches into an unlimited number of combinations. Stitches are formed with side motion. The stitch width can be up to 40 mm wide or more.

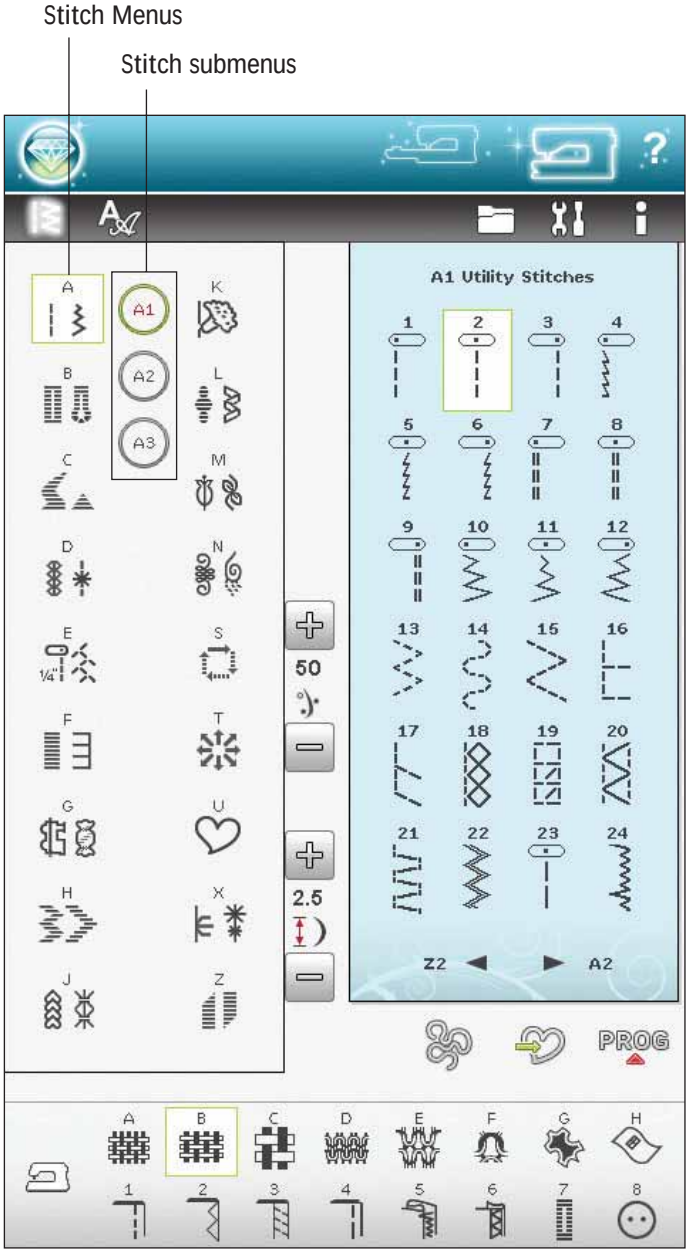
L - Decorative Stitches: For decorative sewing.

M - Crafting Stitches: For decorative stitches to embellish crafts.

N - Fashion Stitches: Fashion stitches to decorate clothing and accessories.

S - 4-way Stitches: For directional sewing and patching using the free arm.

T - 8-way Stitches: Straight stitch and reinforced straight stitch in eight different directions without turning the fabric.



U - My Stitches: Save your own personally adjusted and favorite stitches and stitch programs.

X - Specialty Technique Stitches: Sew special techniques including candlewicking and edging. Extra accessories may be needed. Use Quick Help for detailed information.

Z - Decorative Tapering Stitches: Decorative stitches with tapering.

How to Select a Stitch

To select a stitch, first select a stitch menu. For each menu, there are one or more submenus. A list of stitches is shown for each submenu. Select a stitch by touching it.

FONT MENU

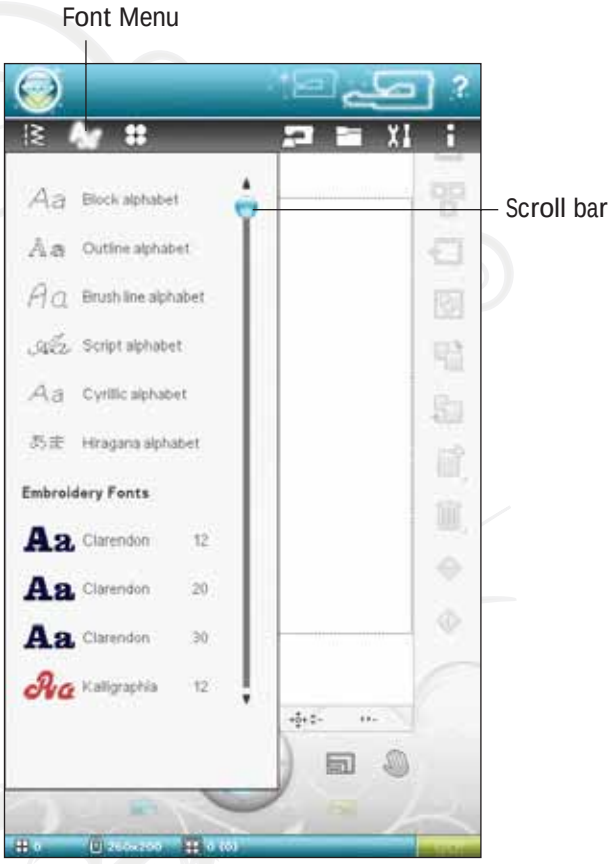
Selecting a Font

Press the Font Menu icon and the Font Menu drop down list will appear. Both stitch fonts and embroidery fonts are visible in Embroidery Mode. Select a font by touching it. Use the scroll bar to see additional fonts.

When an embroidery font is selected, the Embroidery Text Editor will open automatically. You can select different sizes for each font.

When a stitch font is selected, you will automatically enter the Program mode.

Note: Embroidery fonts are only visible if the Embroidery Mode is active.

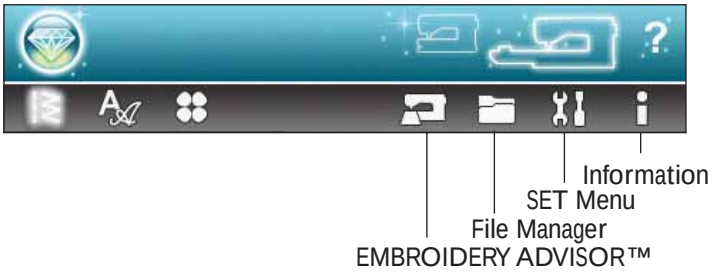


DESIGN MENU

Selecting a Design

Open embroideries by selecting the flower icon on the Extended toolbar. Select an embroidery design by touching it. Use the scroll bar to browse through additional designs.

Note: When a design is selected, the machine will automatically switch to Embroidery Mode and the design will be loaded into Embroidery Edit.



EMBROIDERY ADVISOR™

The EMBROIDERY ADVISOR™ feature recommends the right needle, stabilizer and thread for your fabric. Touch the fabric type and weight you want to embroider on and follow the recommendations. The EMBROIDERY ADVISOR™ feature also gives you tips when embroidering on special fabrics or using special threads. Touch OK to close the EMBROIDERY ADVISOR™ feature.

FILE MANAGER

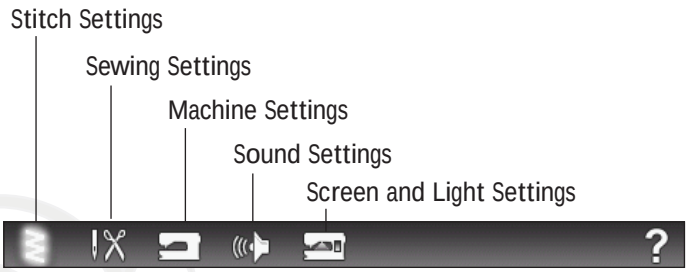
The File Manager lets you add, move, remove and copy designs, fonts and stitch files easily. Load designs or save designs to the built-in memory, external devices connected to the USB-ports, your computer or the USB embroidery stick. Touch & Hold a folder to open it.

You can select several designs at a time. Touch the designs you want to open, then Touch & Hold (see page 3:16) on the last selected design. All designs that you have selected will open in Embroidery Edit.

SET MENU

In the SET Menu, you can override automatic settings and make personal adjustments to the Stitch Settings, Sewing Settings, Machine Settings, Sound Settings and Screen and Light Settings.

Touch the icons to activate a function or open a list of choices. When changing the Sewing, Machine, Sound or Screen and Light Setting, the settings are saved after turning off the machine. If you make changes to Stitch Settings, the changes will not be saved after turning off the machine.



STITCH SETTINGS (ONLY ACTIVE IN SEWING MODE)

In the Stitch Settings screen, you can set presser foot pressure and balance a stitch or buttonhole. These settings will only be valid for the stitch that is currently selected.

If another stitch is selected or the same stitch is selected again, the stitch value is reset to the default value.

Sensor Foot Pressure

In Sewing Mode, touch + to increase or - to decrease pressure from the presser foot on fabric.

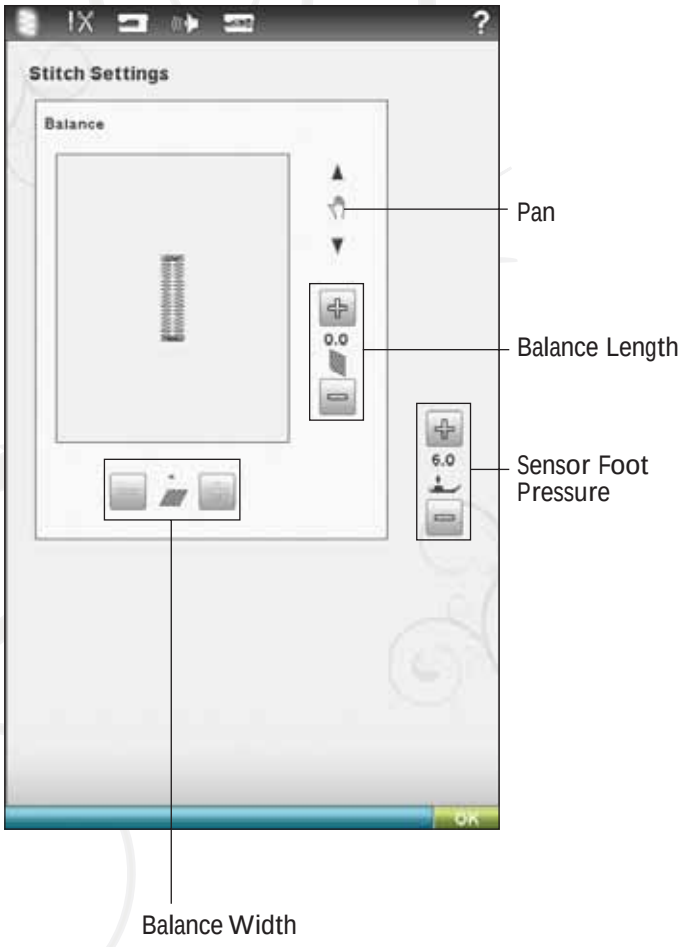
Balance controls

When sewing on special fabrics or doing a specialty technique, the balance of the stitch may need to be adjusted.

Start by sewing a stitch on a piece of scrap fabric with stabilizer underneath. In the SET Menu, select Stitch Settings. Change the picture of the stitch on the screen to match your sewn sample, using the + and - icons. Make the stitch on the screen look like your unbalanced stitch-out.

Now when you sew again on the same fabric, the balance will be corrected. The machine will balance the stitch for you.

Note: Use the Pan icons. The Pan feature lets you see the whole stitch.



SEWING SETTINGS

Twin Needle

Touch the Twin Needle icon to open a list for twin needle width selections. When a twin needle size is selected, the width of all stitches is limited for the selected twin needle size to prevent needle breakage. The setting is kept until you deselect the twin needle width.

When a twin needle size is selected, a pop-up message is shown when turning on your machine. Another warning pop-up message is shown when selecting a stitch that is too wide for the selected twin needle size. The stitch width of those stitches is automatically adjusted to fit the twin needle. Deselect Twin Needle to go back to normal sewing.

Stitch Width Safety

Select the Stitch Width Safety function when using a straight stitch needle plate or a straight stitch presser foot. The needle position is locked to center for all stitches to prevent damage to the needle, presser foot or needle plate.

When turning on the machine with this setting activated and for every stitch selection that is not a straight stitch, a pop-up message informs you that it is set to straight stitch. Deselect Stitch Width Safety to go back to normal sewing.

Note: Twin Needle and Stitch Width Safety cannot be used at the same time.

Selective Thread Cutter Auto

To activate the function select the Selective Thread Cutter Auto in the Sewing Settings. The threads are cut automatically and the presser foot raises at color changes, when an embroidery is finished or when you have completed a buttonhole. When deselected, no Selective Thread Cutter Auto will be performed.

Automatic Jump Stitch Trim

This machine features Automatic Jump Stitch Trim. This function saves you time trimming after the embroidery is completed. The default setting is on. As you embroider, the machine will trim the top jump stitch thread and pull the thread end to the underside of the fabric.

Note: The machine will also cut the thread after you have changed to a new color. Hold the thread end when you start embroidering again, so that you can easily remove the thread end when cut.

Not all designs are programmed for Automatic Jump Stitch Trim. Jump stitch trim commands can be added to any design using the 5D™ Software.

Some embroidery designs you purchase may have trim commands in them. To check if a design includes trim commands you can open the design in 5D™ Stitch Editor and look for the trim command symbol.

Note: If the front and back of your embroidery will be visible, turn off the Automatic Jump Stitch Trim and cut the threads manually.

Sensor Presser Foot Lift

When selected, the Sensor Presser Foot Lift is activated. The presser foot will raise to pivot height for example when stopping to sew with the needle in the down position. When deselected, the presser foot will stay lowered even if the machine stops with the needle in down position or after a thread cut.

FIX Auto

When the FIX Auto is activated, the machine will begin a stitch with FIX stitches. If it is not activated use the FIX button on the front of your machine to fix your stitch or to cancel the FIX at the beginning of a stitch.

Feed Teeth Options

Touch to open a pop-up with three options.

The default setting is Auto (recommended). Auto is always selected when turning on your machine. Your machine automatically raises or lowers the feed teeth, depending on the stitch selected. For example, the feed teeth are lowered when sewing on buttons, or when doing free motion sewing and embroidery. The feed teeth are also lowered automatically when using the Sensor Foot Extra Lift.

Select Up to set the feed teeth raised for all sewing.

Select Down to set the feed teeth lowered for all sewing.

MACHINE SETTINGS

The settings that are made on the screen will be retained when the machine is turned off.

Language

Touch the Language icon to view the languages. Select your desired Language by touching it.

Appearance

When touching the Appearance icon a popup will appear allowing you to change the color scheme of the screen.

Owner's Name

Touch the Owner's Name icon to open a screen that allows you to enter your name.

Timer

The timer displays of the total sewing and embroidery time of your machine. Touch the icon to reset the timer.

Hoop Selection

Touch the Hoop Selection icon and select the hoops you own. When you first load a design, the machine will select the most suitable hoop among the ones you have entered in the Hoop Selection.

Defragment Machine Memory

To optimize sewing and embroidery performance you sometimes need to do a defragmentation. When that needs to be done, a pop-up message appears. To defragment your machine, go to the Machine Settings in the SET Menu, and click on "Defragment Machine Memory".

The defragmentation can take up to 45 minutes to complete.

Auto Smart Save

When Auto Smart Save is selected, the machine will do a Smart Save periodically while embroidering and also when you stop embroidering.

Note: When the Auto Smart Save is activated it will take longer to enter Embroidery Stitch-Out and you may need to Defragment your machine memory more often.

Thread Manufacturer

Touch to select preferred thread manufacturer. You can select between Gütermann Sulky and Robison-Anton. Color codes from the selected manufacturer will be used when changing colors in a design, or when creating a new design from stitches or fonts in your machine.

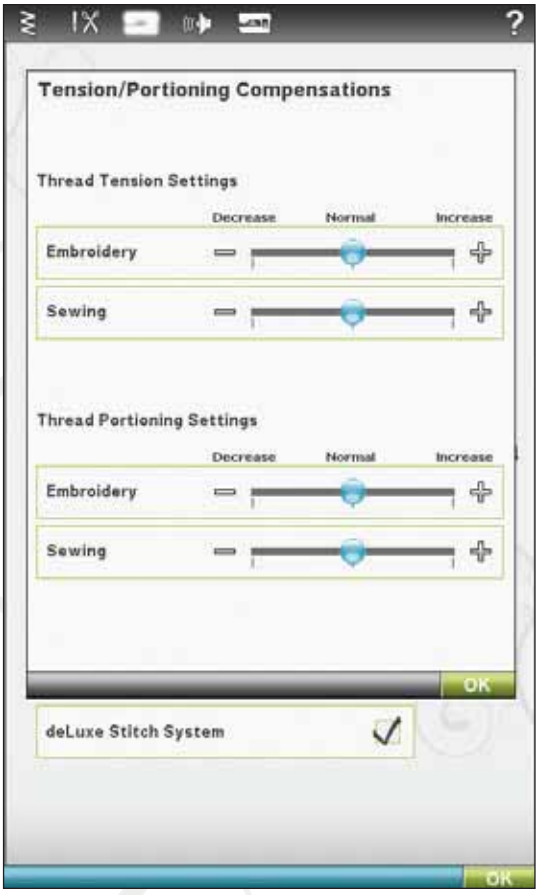
Note: Changing thread manufacturer setting will not automatically convert the colors in existing designs from one thread manufacturer to the other.

Tension/Portioning Compensations

If you find that the Thread Tension/Thread Portioning needs to be increased or decreased for most stitches or embroideries, you can change the general setting for embroidering and/or sewing. You may need to adjust the Thread Tension/Thread Portioning controls when you regularly sew or embroider on a special fabric or use a specialty thread.

Touch Tension/Portioning Compensations. Adjust the slider bars to generally decrease or increase the Thread Tension/Thread Portioning for all stitches and/or embroidery. Default setting is Normal.

Once you have increased or decreased the value in the Settings menu, the Thread Tension control icon or Thread Portioning control icon will change to red.



Sensor Q-foot for embroidery

Sensor Q-foot for embroidery is active by default when you turn on the machine.

The Sensor Q-foot is always recommended for embroidery. When using another type of foot, e.g., the R-foot, deactivate Sensor Q-foot for embroidery. The *deLuxe*™ Stitch System will then use Thread Tension instead of Thread Portioning.

deLuxe™ Stitch System

The *deLuxe*™ Stitch System has two ways to control the needle thread: Thread Tension and Thread Portioning. When activated, the machine will automatically use Thread Portioning if possible. Depending on your other settings, the machine will automatically use Thread Tension in some cases, e.g., when Free Motion is active.

Certain optional accessories or special techniques may require the use of Thread Tension for best results. Deselect the *deLuxe*™ Stitch System icon to switch to Thread Tension.

Read more about the *deLuxe*™ Stitch System on page 4:9.

SOUND SETTINGS

You can change the Sound Settings on your machine to alert you at a variety of situations. Select which sound function you want to change. Then select the sound you want to play by touching the icon. You will be able to hear a preview of the sound when you touch the sound icon. Each alert function can have a different sound. Close the pop-up with the OK icon.

User-Defined Sound

You can use your own sound files in the machine. Touch the sound setting you wish to alter. At the bottom of the list of sounds you will find the User-Defined Sound.

If you want to change your User-Defined Sound, Touch & Hold the User-Defined Sound icon and you will enter My Files and be able to change the sound.

Note: If you touch this icon for the first time it will open My Files. Find your sound file and touch the OK icon. The name of the loaded sound file is shown next to the icon.

The sound length for icon acknowledgement, button/icon disabled alert for warning or attention pop-up messages is maximum of 5 seconds. For Start up and Embroidery Finished, the maximum sound length is 30 seconds.

Note: You can only play PCM encoded WAVE-files. For optimal result the file should be 8-bit mono. Your machine will not support compressed sound files. Always save your sound files in the My Files folder on your machine.

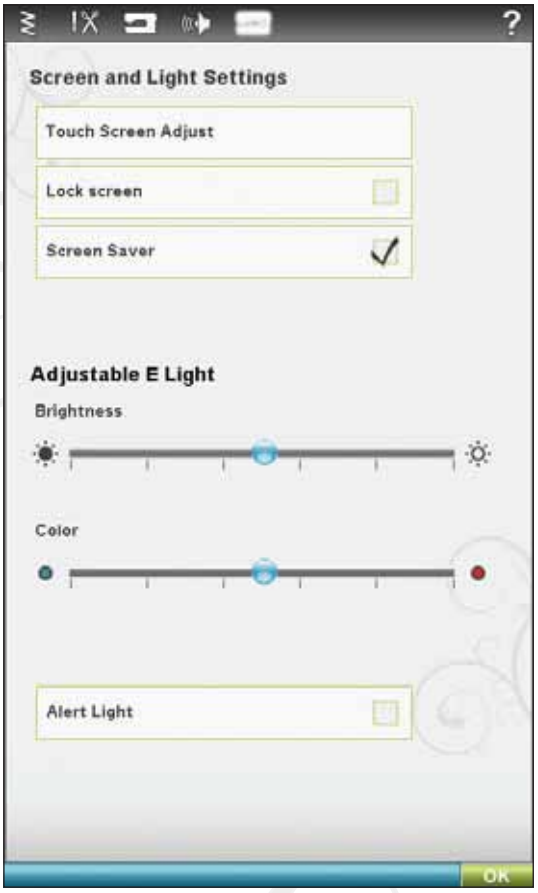
Audio Repeat

When active, the signal for some warning alerts or attention pop-up messages is repeated in intervals until it is cancelled.

Volume

You can change the volume using the slider bar. All sounds settings will be affected if the volume setting is changed.

SCREEN AND LIGHT SETTINGS



Touch Screen Adjust

When touching the icons on the screen, the screen might need calibration to adjust to your touch.

Touch to open a view for calibrating the touch screen. Follow the instructions on the screen to calibrate the screen.

Lock screen

If there is the possibility of bumping the Ultimate Interactive Screen and changing the stitch or settings while sewing, it is easy to lock the screen.

When activated, the screen is automatically locked everytime it is inactive for ten seconds. A pop-up is shown on the screen and will remain locked until you touch OK on the pop-up.

Screen Saver

When activated, the screen shows the startup screen ten minutes after the last touch. Touch the screen or press any button to activate the screen again.

Adjustable E LIGHT™

Adjust the brightness and the color of the Adjustable E LIGHT™ system on your machine to make it perfect to accomodate all types of fabric and colors and to adapt to the light conditions in your sewing room. Simply move the slider to the right or the left in the Brightness and Color bars. Slide the Brightness bar to the right to brighten, to the left to make it less bright. Slide the Color bar to the left for cooler light and to the right for warmer light.

Alert Light

When activated, you will get a flashing light at some warning pop-up messages. When the Alert Light is not activated, only the sound alert will be played.

INFORMATION MENU

Use the Information menu to easily get Help topics and information. The Info menu is a built-in, abridged version of the User's Guide.

When you touch the Info menu icon on the toolbar, you have four options to select from: Index, Category, My info and Text.

Browse through the topics using your stylus on the slider bar on the right side of the screen. The left arrow at the lower left corner of the screen opens the previous page. The right arrow takes you to the next page (if there is one).

Index

Index shows the Help topics in alphabetical order.

Category

Category shows the Help topics divided into categories following the structure of the User's Guide Table of Contents.

My info

My info contains the owner's name, machine's software information and serial number.

Text

You can open and read text and HTML-files on your machine. To be able to open a text file or HTML-file you need to go to your File Manager and touch My Files. Touch & Hold on the file you wish to open. That file will then open in Text view. It will stay there as long as you have the machine on.

BOTTOM TOOLBAR

Embroidery Edit

In the lower right corner of the Embroidery Edit window, you have a GO! icon. Touch the icon to enter the Embroidery Stitch-Out.

Embroidery Stitch-Out

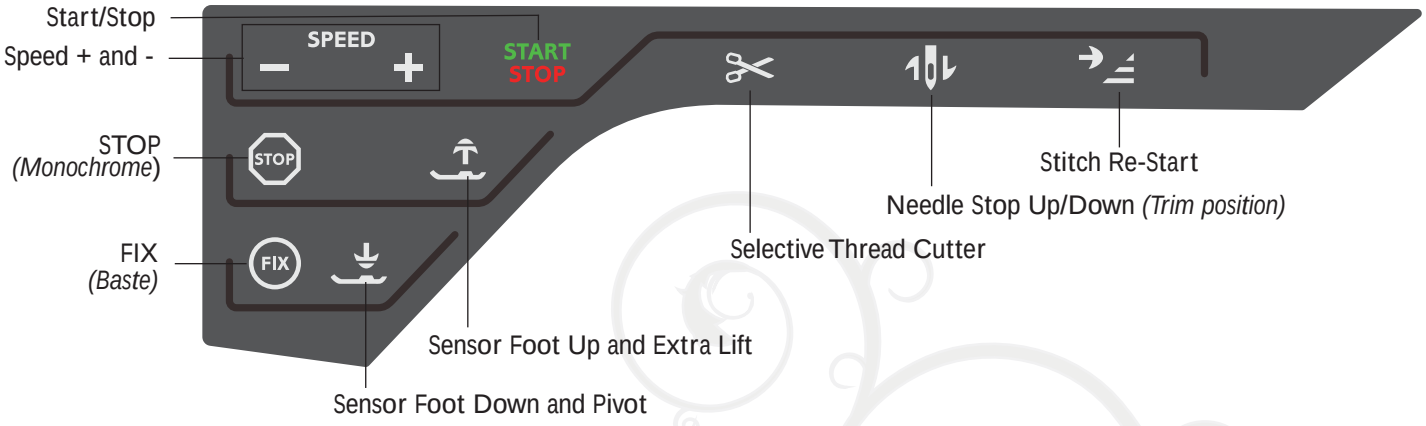
The Return icon is in the lower right corner of the Embroidery Stitch out mode window. If you touch the icon you will return to Embroidery Edit.

OK

Confirms settings or changes and returns to previous window.

Cancel

Cancels settings and changes and returns to previous window.



FUNCTION BUTTONS (Embroidery mode functions are in brackets)

START/STOP

Touch this button to start and stop the machine sewing or embroidering without using the foot control. Touch START/STOP to begin and touch again to stop.

SPEED + AND -

All stitches in your machine have a pre-set, recommended sewing speed. When you select a stitch, your machine automatically sets the best sewing speed for that stitch.

Touch Speed+ or Speed - to increase or decrease the maximum allowed sewing speed. When not sewing, touch Speed and a pop-up message on the screen will indicate the speed setting. You can set the speed by touching the slider in the pop-up message. If you change the speed setting while sewing no pop-up message will appear.

STOP (MONOCHROME)

Sewing Mode

Select STOP to conclude a stitch. Your machine fixes the thread and stops automatically when one stitch or stitch program has been completed. When STOP is selected only one stitch is displayed on the Ultimate Interactive Screen. The STOP button lights up when you touch it. Select STOP again to cancel or by selecting a new stitch. The STOP button light will go out. The STOP function can be programmed, see program chapter. The STOP function is cancelled when the stitch is completed.

Embroidery Stitch-Out

Select STOP to eliminate stops for color changes or to create monochrome embroidery, see Embroidery Stitch-Out chapter.

FIX (BASTE)

Sewing Mode

FIX is used to tie off a stitch. FIX is automatically activated when you select a stitch, use the Selective Thread Cutter, select Stitch Re-Start, STOP or by touching FIX while you are sewing. At the beginning, your machine sews a few tie-off stitches and continues with the selected stitch. Touch FIX while sewing and your machine sews a few tie-off stitches and stops automatically. The FIX button lights up when the FIX function is active. Touch the lit button to turn the function off. The FIX function can be programmed, see Program chapter.

Note: FIX Auto can be cancelled in the SET Menu, Machine Settings (see page 3:8). No tie-off stitches will be sewn unless you select the FIX button on your machine.

Embroidery Stitch-Out

Touch FIX to baste an outline of the embroidery design area to baste the fabric to the stabilizer.

SENSOR FOOT DOWN AND PIVOT

The presser foot is lowered automatically when you start sewing.

Sewing Mode

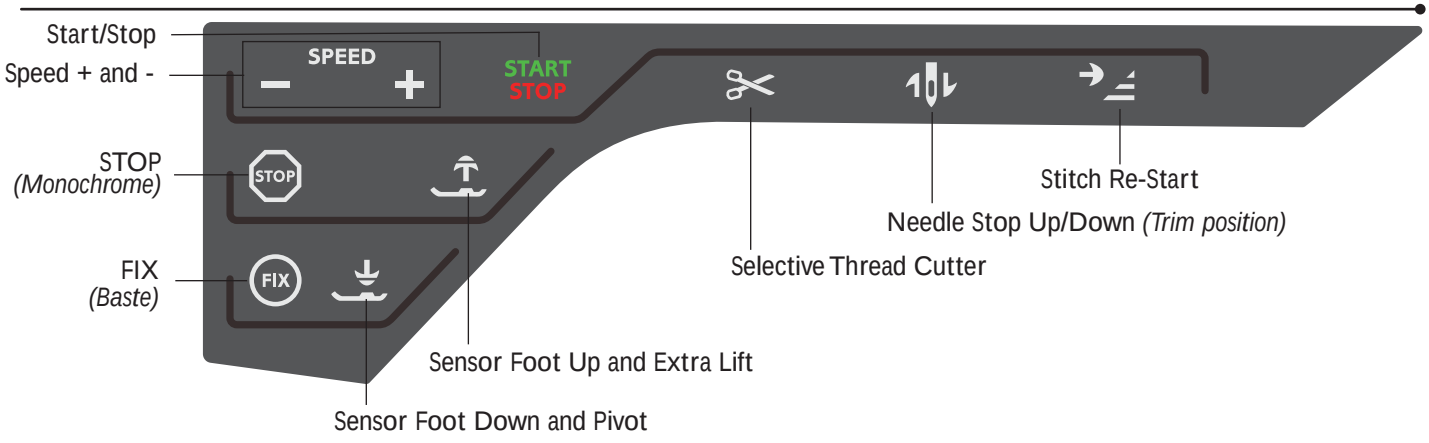
Touch the Sensor Foot Down and Pivot button and the presser foot will be completely lowered. The machine firmly holds the fabric. Touch Sensor Foot Down again to get the Pivot position.

Embroidery Mode

In Embroidery Mode touch Sensor Foot Down to lower the presser foot into the Embroidery "float" position.

SENSOR FOOT UP AND EXTRA LIFT

Touch Sensor Foot Up to raise the presser foot. Touch it a second time and the presser foot will raise to Extra Lift, and the feed teeth are lowered automatically to make it easy to get thick fabric under the presser foot.



SELECTIVE THREAD CUTTER

Sewing Mode

Touch the Selective Thread Cutter button and your machine cuts the top and bobbin threads, raises the presser foot and the needle, and activates the FIX function for the next start. To cut threads at the end of a stitch or stitch program, touch Selective Thread Cutter while sewing. The button starts to flash, indicating that a cut is requested. When the stitch or stitch program is completed, the upper thread and bobbin thread will be cut. The Selective Thread Cutter function can be programmed, see Program chapter.

Note: Your machine cuts the threads automatically after certain stitches such as completing a Sensor One Step Buttonhole. Automatic Selective Thread Cutter can be cancelled in the SET Menu, see page 3:7.

Embroidery Stitch-Out

The Selective Thread Cutter cuts the threads and raises presser foot. When the design is finished, both top and bobbin threads are cut automatically.

NEEDLE STOP UP/DOWN (TRIM POSITION)

Sewing Mode

Touch the Needle Stop Up/Down to move the needle up or down. The setting of the needle stop position is changed at the same time. This function will also set the needle position up or down when you stop sewing. You can also tap the foot control to raise or lower needle once you stop sewing.

Embroidery Stitch-Out

The machine will move the hoop forward, towards you, for easy thread trimming.

STITCH RE-START

Sewing Mode

When you stop sewing in the middle of a stitch, touch Stitch Re-Start to begin sewing at the beginning of the stitch. The stitch or stitch program will remember any special settings you made.

Embroidery Stitch-Out

Touch Stitch Re-Start to move the hoop position back for easy bobbin access. When you touch the Stitch Re-Start button again, the machine will move the hoop back into position at the current stitch.

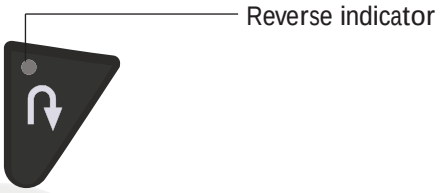
EXCLUSIVE SENSOR SYSTEM™

Thanks to the EXCLUSIVE SENSOR SYSTEM™ feature, the presser foot continuously senses the thickness of fabric, embroidery or stitching and sews over it smoothly and evenly with perfect fabric feed.

Go to the SET Menu, Sewing Settings, to see the actual setting of the Sensor presser foot pressure for the selected fabric and adjust the presser foot pressure.

REVERSE

For permanent reverse, press the Reverse button once before starting to sew. The reverse indicator will be lit and the machine sews in reverse until you press the button again to cancel. If you press the reverse button while sewing, the machine will sew in reverse for as long as you keep the button pressed. The reverse indicator is lit when the reverse button is pressed.



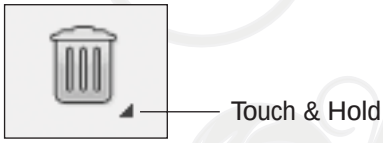
Reverse is also used when sewing buttonholes, darning stitches and tapering stitches to step between the parts of the stitch.

COMMON ICONS/FUNCTIONS

The following icons and functions on the screen are used frequently.

Touch & Hold

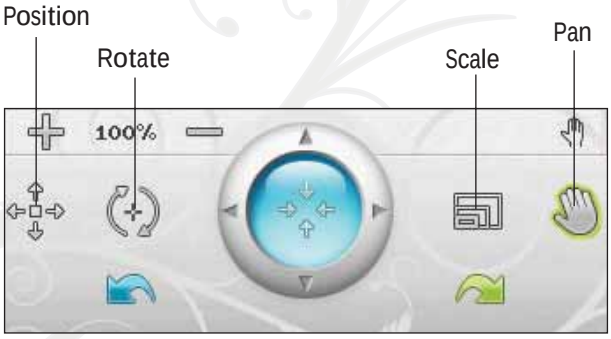
Some icons have additional functions, marked with an arrow at the lower right corner. To access those functions, Touch & Hold the icon for a few seconds.



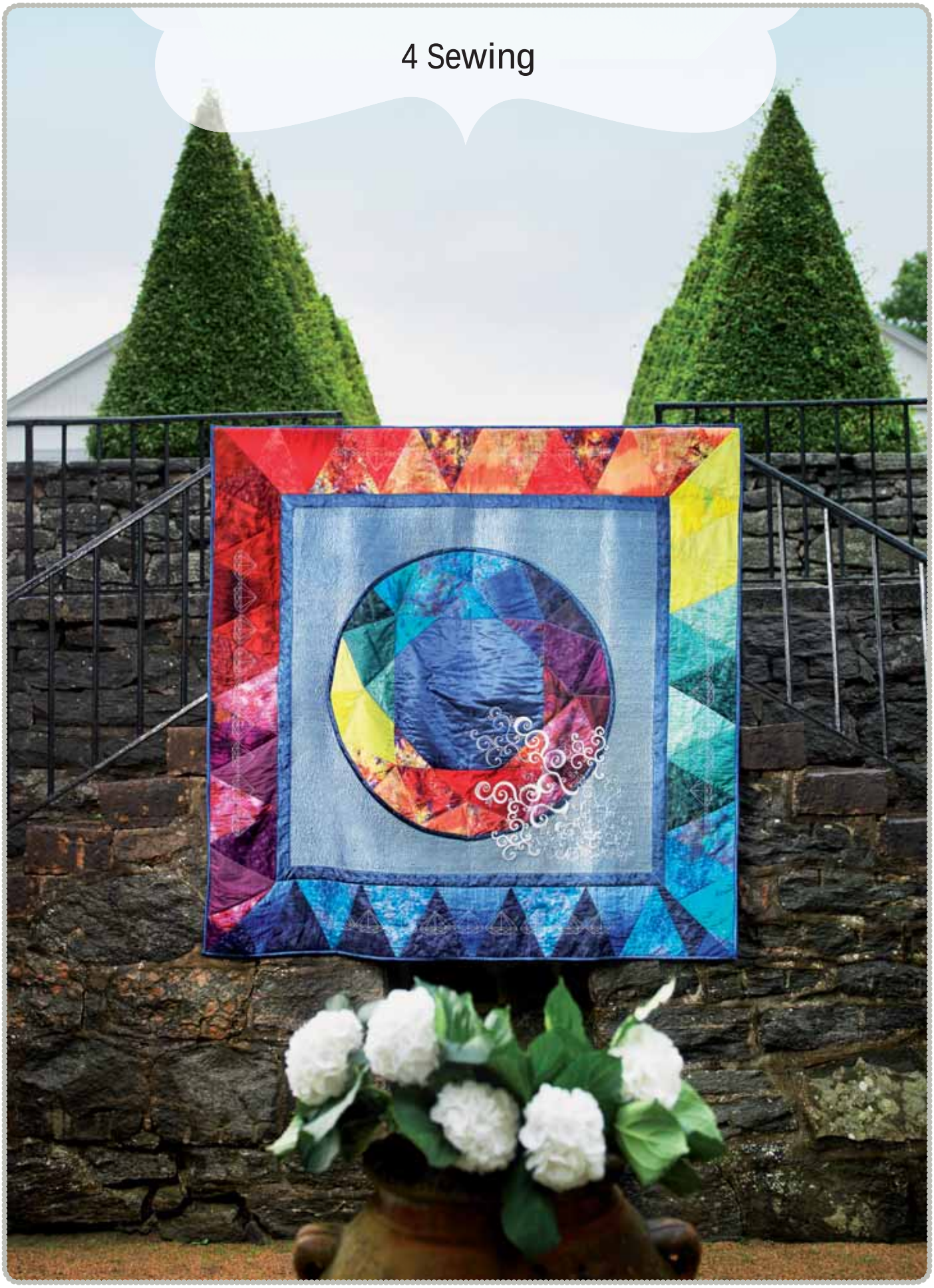
Control functions- Embroidery Mode

The Control functions will be used to make adjustments. There are four functions to use: Position, Rotate, Scale and Pan.

When a Control function is selected, make adjustments by touching the arrows in the control, or by touching with your stylus on the screen. The appearance of the control will change depending on which function is selected.



4 Sewing

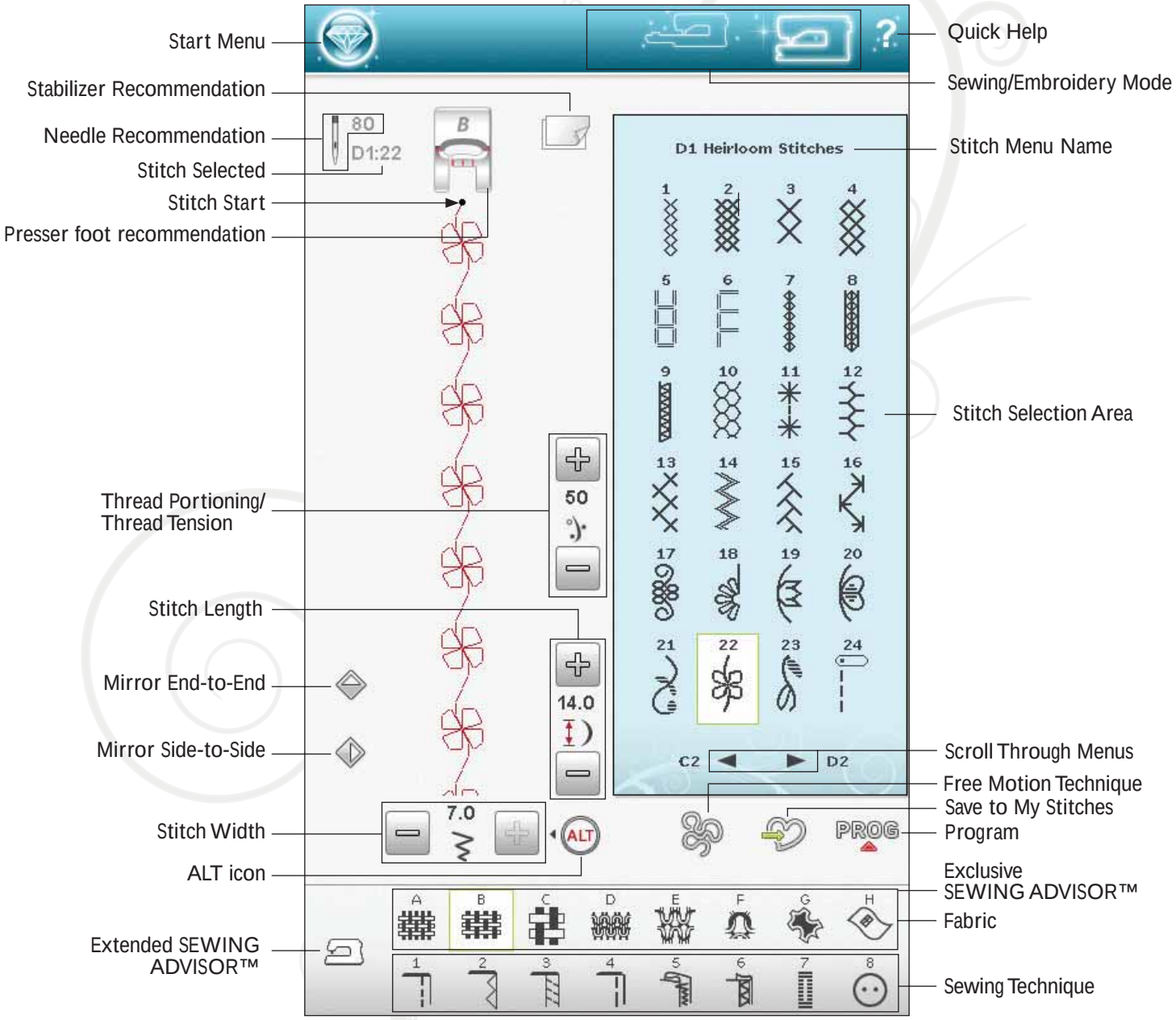


SEWING MODE

In Sewing Mode you can select stitches, adjust and sew them. Your selected stitch will be shown in actual size in the stitch field. The recommendations and machine settings will be shown at the top.

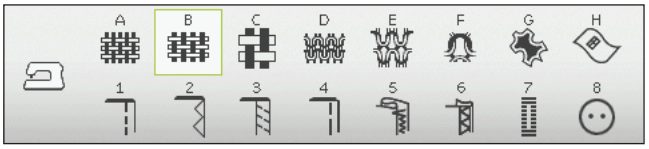
You can also go to Program mode to create your own stitch programs. Read more about how to program stitches in the Program chapter.

SEWING MODE - OVERVIEW OF ICONS



EXCLUSIVE SEWING ADVISOR™

Your new sewing machine has the HUSQVARNA VIKING® Exclusive SEWING ADVISOR™ feature. It is always active and is located at the bottom of the Ultimate Interactive Screen. When beginning a sewing project, touch your fabric type and weight, then touch the technique you desire.



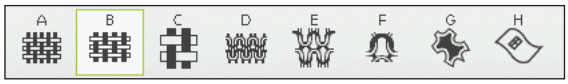
The Exclusive SEWING ADVISOR™ feature sets the best stitch, stitch length, stitch width, sewing speed, Thread Tension and sensor foot pressure for your project. The stitch is displayed on screen with presser foot and needle recommendations.

There is also an Extended SEWING ADVISOR™ feature with text. Touch the sewing machine icon to open the Extended SEWING ADVISOR™ feature.

FABRIC SELECTION

Woven or Knit

The difference between woven and knit fabric is the way the threads are put together. Woven fabrics are made of two thread systems, warp lengthwise and weft crosswise, that intersect at right angles. A knit fabric is made of one thread system with interlaced stitches. A knit fabric usually has stretch.



As a general rule, enter Woven for stable fabrics that have no stretch and Stretch for fabrics that have stretch.

Suggested Fabrics

A WOVEN LIGHT: chiffon, organza, batiste, silk, wool challis, etc.

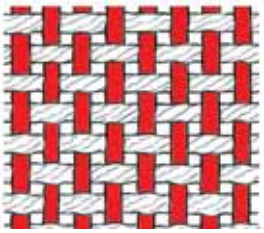
B WOVEN MEDIUM: calico, quilting fabrics, wool crepe, broadcloth, etc.

C WOVEN HEAVY: denim, wool suiting and coating, canvas, terrycloth, etc.

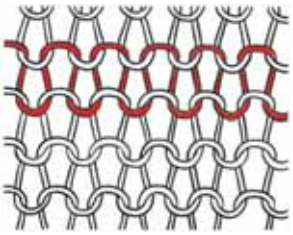
D STRETCH LIGHT: charmeuse, nylon, tricot, single knit jerseys, etc.

E STRETCH MEDIUM: double knit, velour, swimwear, etc.

F STRETCH HEAVY: sweater knits, fleece, etc.



Woven fabric.



Knit fabric.

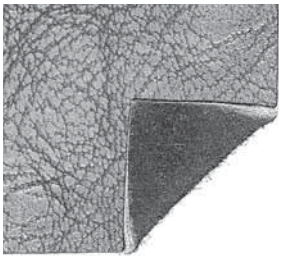
Leather and Vinyl

Leather is animal skin with the coat (fur) removed. Leather can be smooth or sueded and has some give.

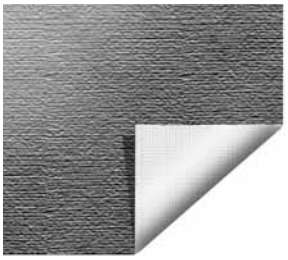
G LEATHER: for suede and leather.

Vinyl is a synthetic material which often has a woven wrong side. Vinyl can be smooth or patterned and some vinyls have stretch.

H VINYL: for vinyl and synthetic leather and suede.



Leather.



Vinyl.

SEWING TECHNIQUES

1 SEAM: sews two pieces of fabric together.

2 OVERCAST: overcast fabric edges to prevent them from fraying and to help them lay flat.

3 SEAM/OVERCAST: sews the seam and overcasts the edge all at one time.

4 BASTE: a temporary stitching for fitting garments, gathering and marking.

5 BLIND HEM: creates an invisible hem on garments. Is not recommended for light weight fabric or for leather/vinyl. Your machine selects the best stitch possible for the fabric you select.

6 HEM: selects the best visible or top stitch hem for your fabric type and weight.

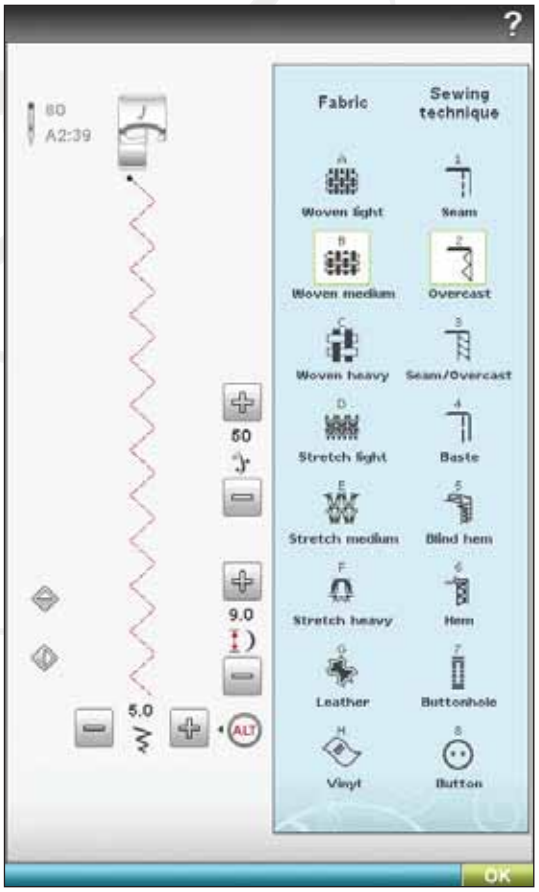
7 BUTTONHOLE: the Exclusive SEWING ADVISOR™ feature selects the best buttonhole possible for your fabric.

8 BUTTON: for sewing on buttons.

Note: If an unsuitable combination is selected (for example woven light-blind hem), your machine beeps, and the sewing tecniques shall be unselected. However, the stitch can still be sewn, but it is not recommended by your machine.

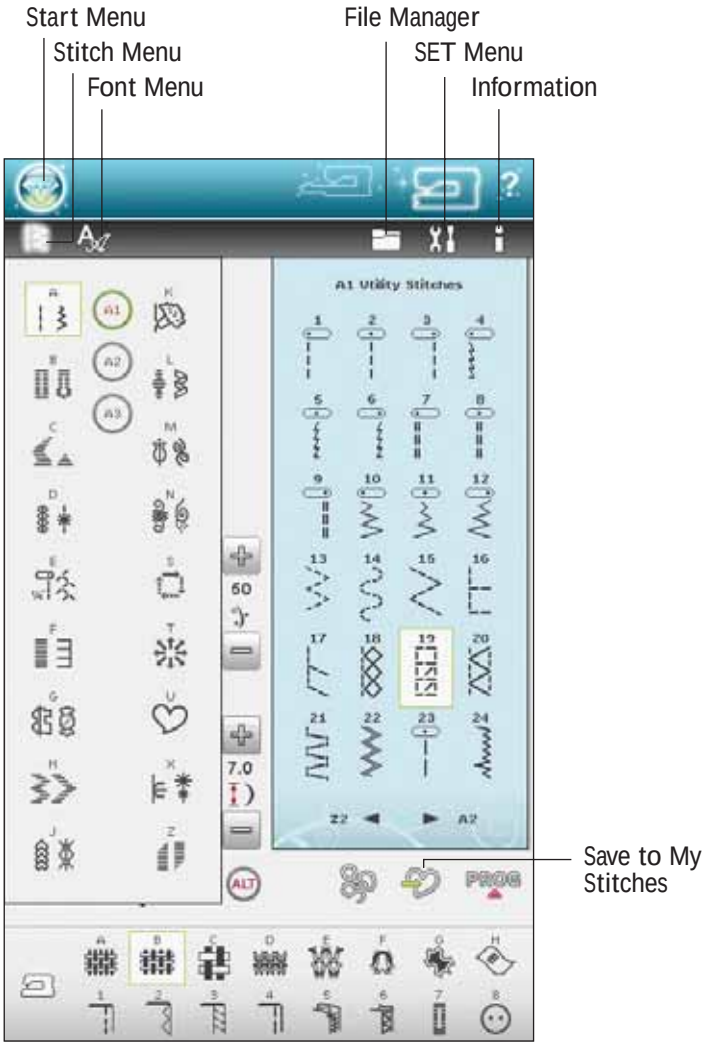
EXTENDED SEWING ADVISOR™

The Extended SEWING ADVISOR™ feature identifies each icon with text. Open it by touching the Extended SEWING ADVISOR™ icon. Select your desired fabric and sewing technique by touching the buttons. The stitch selected by the Exclusive SEWING ADVISOR™ feature and its settings are shown to the left, and you can adjust the width, length and mirror the stitch with the buttons. Touch OK to return to the stitch view.



TOOLBAR

On the toolbar you will find the Start Menu icon (which opens the Extended Start Menu), Sewing/Embroidery Mode icon (to switch between Sewing Mode and Embroidery Mode) and the Quick Help icon. First touch the Quick Help icon and then something you want information about on the screen. On the extended toolbar you will find Stitch Menu, Font Menu, File Manager, SET Menu and Information in Sewing Mode. Read more about these functions in chapter 3, Ultimate Interactive Screen.



SELECT A STITCH

To select a stitch, touch the actual stitch in the stitch selection area. You can go through the list of stitches, using the arrow below the stitches. The number of the actual subcategory is shown beside the scroll bar.

To enter a certain menu, touch Start Menu and then the Stitch Menu icon on the extended toolbar. A foldout menu will appear allowing you to choose from the different menus. Some of the menus have submenus. Touch a menu/submenu button to display the stitches in the stitch selection area.

Load a stitch from another location

Load stitches that you have saved in File Manager or in other locations. Touch the File Manager icon on the extended toolbar. The File Manager window will open. Locate your stitch and Touch & Hold or touch OK to load it.

My Stitches - Menu U

In menu U you find your own stitches and stitch programs. See Chapter 5 for how to save a program or adjusted stitch in My Stitches.

STITCH SETTINGS

Your machine will set the best settings for each selected stitch. You can make your own adjustments on the selected stitch.

The changes only affect the selected stitch. Your changed settings will be reset to default when selecting another stitch. The changed settings are not automatically saved when turning your machine off. You can save the adjusted stitch in My Stitches (see Chapter 5, Program).

What is a stitch?

A stitch is a single stitch as in straight stitch or two individual stitches as in a zigzag. A stitch is also the complete stitch made up of the total individual stitches in the stitch such as 3 step zigzag, or decorative stitch.

ALT

The controls on your screen can change depending on what stitch you have chosen. Some stitches have more then two controls, and in those cases the ALT appears. When you touch the ALT one or both controls next to the ALT button will change. The arrows beside the ALT will indicate which one. Touch the ALT again to change back to the original controls. Below you will find a description of the different controls that can appear when selecting a stitch.

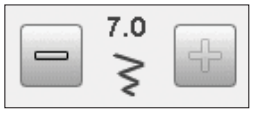
Stitch Positioning

On certain stitches, for example straight stitch, the stitch width icon becomes a stitch position icon. Use + to move the stitch to the right and - to move the stitch to the left when using a straight stitch. The machine has a maximum of 29 needle positions (for a straight stitch).

When ALT is selected on a stitch that has width the edge position of the stitch can be moved from right to left. The stitch position can only be changed to the limit of the maximum stitch width. Changing the stitch position will also limit the stitch width adjustment.

Stitch Width

Decrease or increase the stitch width using -and +. Default settings are shown in black numbers, adjusted settings in red.

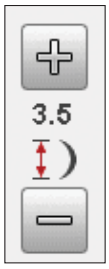


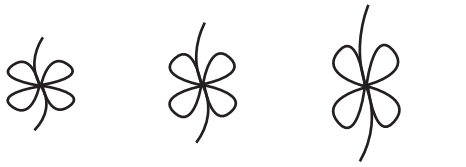
Stitch Length

Increase or decrease the stitch length using + and -. If lengthening a zigzag stitch or a decorative stitch, the entire stitch will be longer. If lengthening a satin stitch where the density can be adjusted, the entire stitch will be longer but the density will remain the same.

Note: The set stitch width and the stitch length are shown between the + and -. When trying to exceed minimum or maximum settings for width and length, a warning sound will be heard.

The default setting is shown in black. Changed settings are shown in red.





Stitch length -

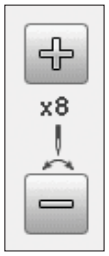
Stitch length +

Button size

When sewing a buttonhole with the Sensor One-Step buttonhole foot, you can set the button size. Measure your button and enter the button size in the button size control.

Button Sew On

When sewing a button, you can set the number of stitch repeats. Touch the + or -to increase or decrease the number of stitch repeats (see 4:17).



Stitch Density

The stitch density control adjusts the density (the distance between the individual satin stitches that make up the entire stitch). The density does not affect the actual length of the entire stitch.

Touch + to increase the value. Touch - to decrease the value.

Note: This is often used with specialty threads and when a less dense satin stitch is desired.

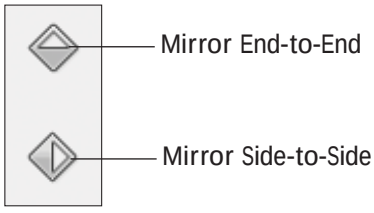
Stitch density +

Stitch density -

Mirroring

To mirror stitches or stitch programs sidewise touch Mirror Side-to-Side icon. For mirroring the stitch or stitch programs lengthwise touch Mirror End-to-End icon.

Note: Buttonholes cannot be mirrored.



Mirror End-to-End

Mirror Side-to-Side

FREE MOTION TECHNIQUE

When touching the Free Motion Technique icon a pop-up will appear allowing you to choose between two options: Free Motion Floating and Free Motion Spring Action.

Free Motion Floating

Activate to set the machine in Free Motion Floating mode for presser foot R. The feed teeth will lower automatically.

When sewing free motion at low speed the presser foot will raise and lower with each stitch to hold the fabric on the needle plate while the stitch is being formed. At higher speed, the presser foot floats over the fabric while sewing. The fabric must be moved manually.

Skipped stitches can occur if your fabric moves up and down with the needle as you are stitching. Lowering the presser foot height will reduce the space between the presser foot and the fabric and eliminate the skipped stitches.

Note: Be careful not to reduce the presser foot height too much. The fabric must still move freely under the presser foot.

To adjust the presser foot height in Free Motion Floating mode, touch the Presser Foot height control to make adjustments.

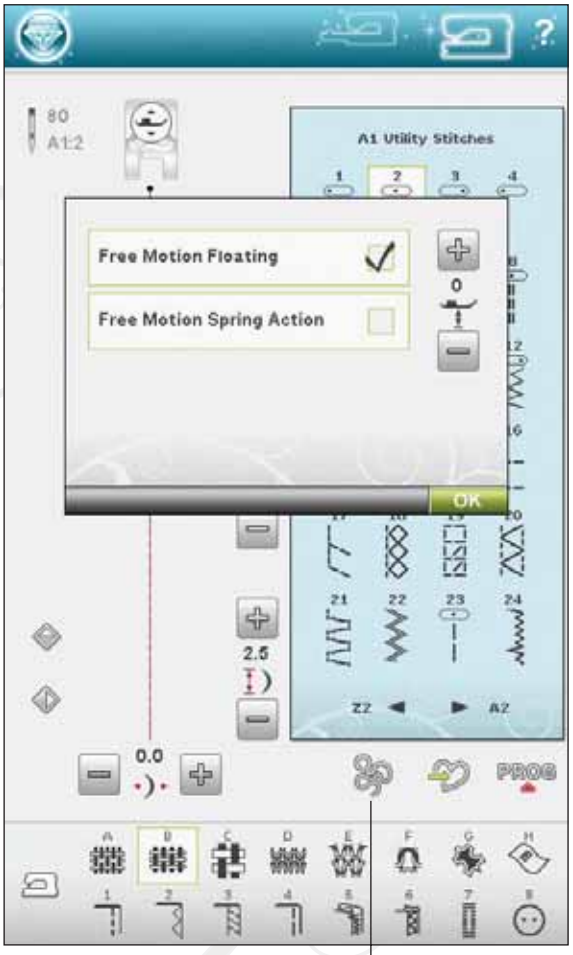
Free Motion Spring Action

When selecting Free Motion Spring Action the feed teeth will lower automatically. A spring action foot will raise and lower with each stitch to hold the fabric on the needle plate while the stitch is being formed. Always use Sensor Q-foot when selecting Free Motion Spring Action.

When sewing, you must move the fabric manually.

Note: If Free Motion Floating is activated, do not use any Spring action foot, as this might damage the presser foot. Activate Stitch Width Safety if the presser foot requires that.

Note: The Open Toe Free Motion Spring foot is optional and can be purchased at your local authorized dealer.



Free Motion Technique

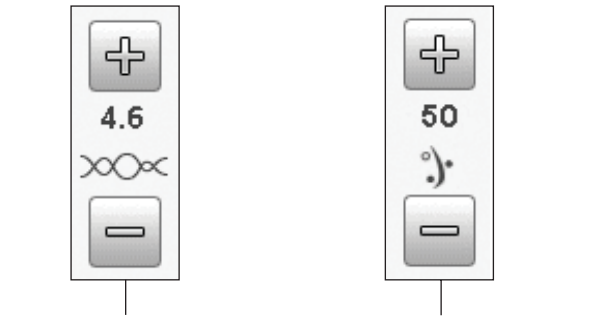
DELUXE™ STITCH SYSTEM

The *deLuxe*™ Stitch System has two ways to control the needle thread: Thread Tension and Thread Portioning. The *deLuxe*™ Stitch System improves the correct balance between needle thread and bobbin thread. It will automatically use Thread Portioning when possible, to get the best result.

Thread Portioning automatically and continuously measures the fabric thickness to portion the correct amount of thread for the selected stitch. When using Thread Tension, the tension discs will keep the correct amount on tension on the needle thread.

Certain optional accessories or special techniques may require the use of Thread Tension for best results. Deselect *deLuxe*™ Stitch System icon in the Machine Settings menu to switch to Thread Tension.

Depending on which function is active in the Machine Settings, the control visible in sewing/embroidery mode will change. Use the controls to adjust the balance between needle thread and bobbin thread, e.g., when using specialty thread.



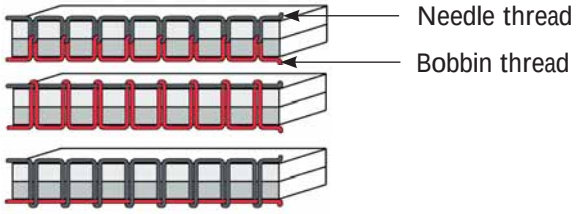
Adjust Thread Tension/Thread Portioning

For the best stitch appearance and durability make sure the threads meet evenly between the two fabric layers.

If the bobbin thread is visible on the top side of the fabric, the Thread Tension/Thread Portioning is too tight. Reduce the Thread Tension/Thread Portioning.

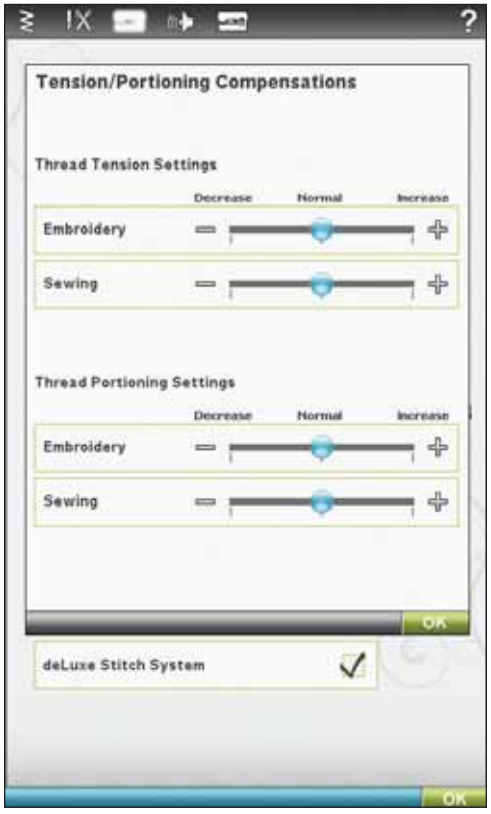
If the needle thread is visible on the underside of the fabric, the Thread Tension/Thread Portioning is too loose. Increase the Thread Tension/Thread Portioning.

For decorative stitches and buttonholes the top thread should be visible on the underside of the fabric.



Tension/Portioning Compensations

If you find that the needle thread in general is too tight or too loose, touch the Tension/Portioning Compensations icon in the Machine Settings menu and adjust the settings with the slider bars. See page 3:10.



STITCH SETTINGS IN SET MENU

If you want to check the balance or presser foot pressure on the active stitch you can go to your SET Menu.

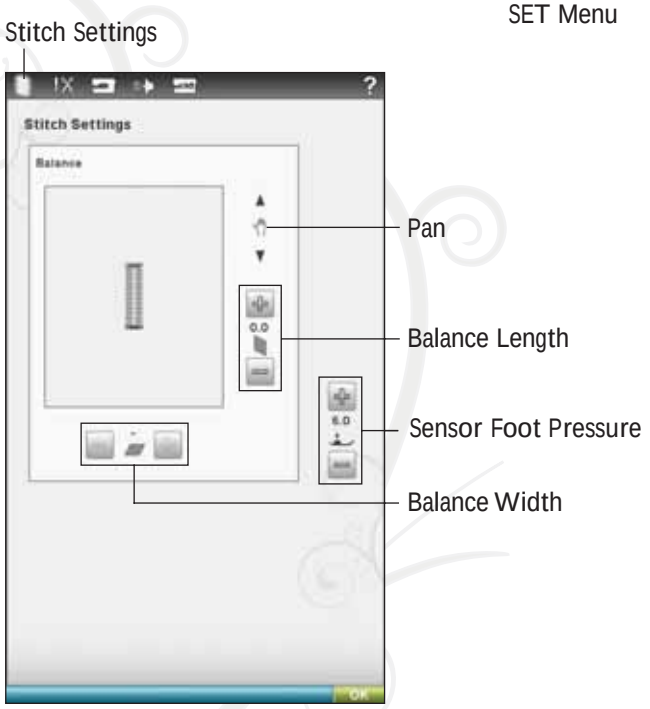
Touch the Start Menu to open the Extended Start Menu. On the Extended Start Menu, touch the SET Menu icon, then touch Stitch Setting to see the actual setting of the stitch.

BALANCE

When sewing on special fabrics or doing a special technique, the balance may need to be adjusted.

Start by sewing a stitch on a piece of scrap fabric. Touch the SET icon on the extended toolbar. Choose the Stitch Settings to open the balance window. Balance the stitch, using the + and - icons. Use the pan icons to see the whole stitch. Change the picture on the screen to match your sewn sample. When you sew again, the balance will be corrected.

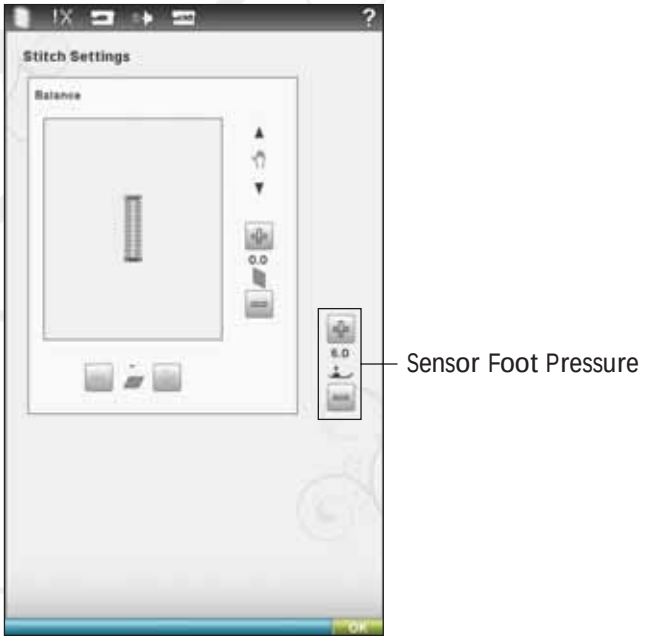
Buttonholes can also be balanced.



EXCLUSIVE SENSOR SYSTEM™ FEATURE - SENSOR FOOT PRESSURE

Thanks to the Sensor Foot Pressure, the machine actually senses the thickness of the fabric, embroidery or stitching to sew over it smoothly and evenly with perfect, even fabric feed.

Go to the Stitch Settings to see the actual setting of the Sensor Foot Pressure for the selected fabric and to adjust the Sensor Foot Pressure.



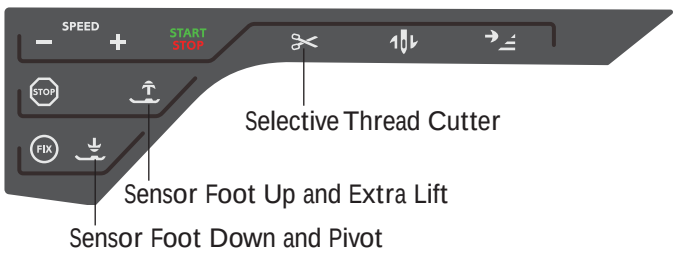
Raise and lower the presser foot

The Sensor Foot Up and Extra Lift raises the presser foot. The Sensor Foot Down and Pivot lowers the presser foot.

To lower the presser foot, place the fabric under the presser foot and press the Sensor Foot Down and Pivot button or step on the foot control. To raise the presser foot, press the Sensor Foot Up and Extra Lift or press the Selective Thread Cutter to cut needle and bobbin thread and raise the foot. When the needle stops in the down position, the presser foot raises to pivot position.

You can also lower the presser foot and the needle with your foot control. If you tap your foot control once you will lower the presser foot. If you tap the foot control twice the needle will be lowered into the fabric.

Note: With Needle Stop Down selected: when you stop sewing and touch Sensor Foot Up the foot will raise but the needle stays in the fabric. Touch Sensor Foot Up again to raise the needle.



SEWING TECHNIQUES

SEAM

A seam sews two pieces of fabric together with a seam allowance that will usually be pressed open. In most cases, edges of the seam allowance are finished with an overcast stitch before sewing the seam.

Seams in stretch fabric must stretch with the fabric. The stretch stitch makes a stretchy seam that is suitable for sewing together pieces of light stretch fabric.

FABRIC: Woven medium, cut in two.

SELECT: Woven medium fabric and Seam technique. (The Exclusive SEWING ADVISOR™ feature selects a straight stitch.)

USE: Presser foot A and size 80 needle as recommended.

SEW:

- Place fabrics right sides together. Put the fabric in position under the presser foot. Line up the edge with the 5/8" (15 mm) seam guide.
- Step on the foot control. The presser foot lowers automatically.
- Sew a seam. When finished, touch the Selective Thread Cutter. The Selective Thread Cutter cuts top and bobbin threads and the presser foot raises so you can remove your project.

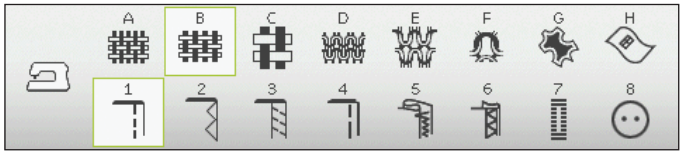
FABRIC: Stretch light, cut in two.

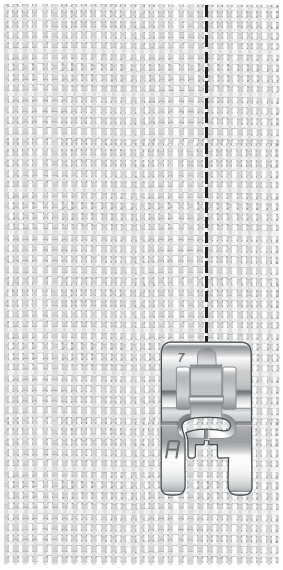
SELECT: Stretch light fabric and Seam technique. (The Exclusive SEWING ADVISOR™ feature selects a stretch stitch.)

USE: Presser foot A and size 75 stretch needle as recommended.

SEW:

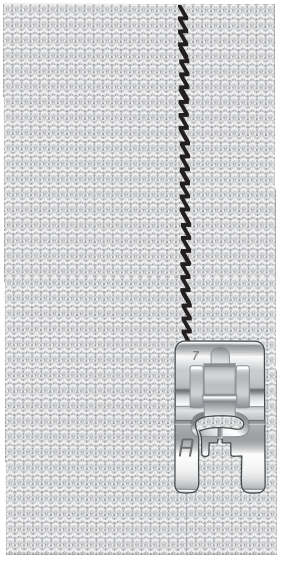
- Place fabric pieces right sides together. Put the fabric in position under the presser foot. Line up the edge with the 3/8" (10 mm) seam guide for a 5/8”seam.
- Step on the foot control. The presser foot lowers automatically.
- Sew a seam. When finished, touch the Selective Thread Cutter. The Selective Thread Cutter cuts top and bobbin threads and the presser foot raises so you can remove your project.





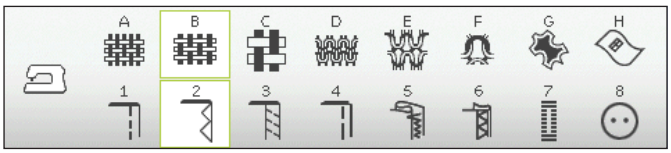
Straight stitch.

Straight stitch can also be used for topstitching. For a more visible topstitch, lengthen the stitch and use heavier thread with a larger size needle.



Stretch stitch.

OVERCAST



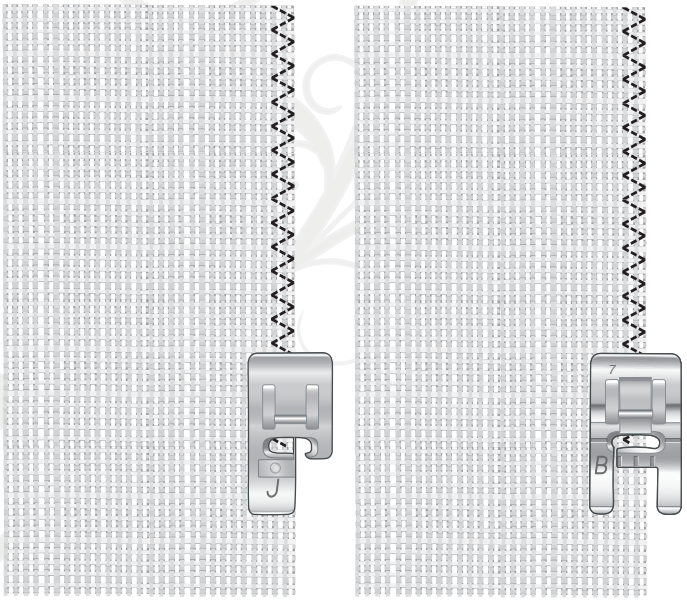
Overcast fabric edges to prevent fraying and to help them lay flat. It is easiest to overcast before the garment is sewn together. Presser foot J is recommended for light and medium weight fabric to prevent puckering along the edge. Presser foot B is used for heavy weight fabric. Your Exclusive SEWING ADVISOR™ feature will select the best stitch length and stitch width for the fabric weight and recommend the presser foot and needle.

FABRIC: Woven medium.

SELECT: Woven medium fabric and Overcast technique. (The Exclusive SEWING ADVISOR™ feature selects a three-step zigzag stitch.)

USE: Presser foot J and size 80 needle as recommended.

Place the edge of a single thickness of fabric under presser foot J with the wire guide along the edge of the fabric. The three-step zigzag stitch sews over the wire guide to keep the edge of the fabric flat.

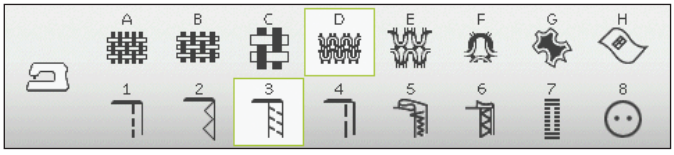


SEW:

- Step on the foot control. The presser foot lowers automatically.
- Sew to overcast the edge of the fabric.
- Touch the Selective Thread Cutter.

Note: It is not necessary to overcast leather or vinyl because they do not fray. However, the Exclusive SEWING ADVISOR™ feature allows you to, if desired. Select Leather/Vinyl fabric and Overcast technique on your Exclusive SEWING ADVISOR™ feature. (The Exclusive SEWING ADVISOR™ feature selects a zigzag stitch).

SEAM AND OVERCAST



The Seam/Overcast stitch sews the seam and overcasts the edges all at one time. There are a number of different Seam/Overcast stitches on your machine. Your Exclusive SEWING ADVISOR™ feature will select the best one for your fabric and make all adjustments automatically.

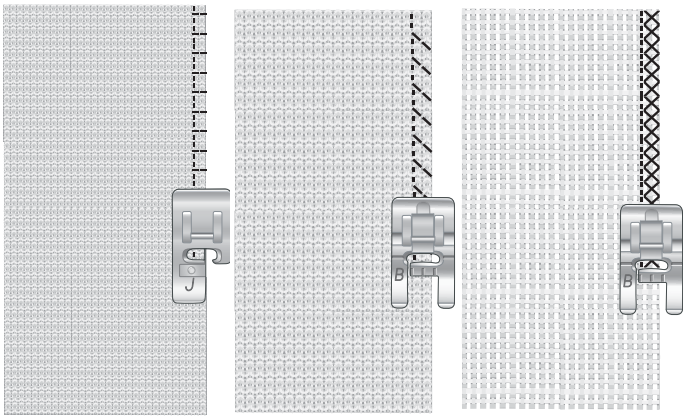
FABRIC: Stretch light, cut in two.

SELECT: Stretch light and Seam/Overcast on the Exclusive SEWING ADVISOR™ feature.

USE: Presser foot J and size 75 stretch needle as recommended.

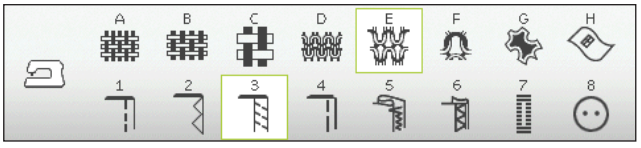
SEW:

- Place fabric pieces right sides together. Put the fabric in position under the presser foot with the wire guide on the foot along the edge of the fabric.
- Step on the foot control. The presser foot lowers automatically.
- Seam/Overcast along one edge.
- Touch the Selective Thread Cutter.



Repeat the Seam/Overcast technique on stretch heavy fabric and on woven heavy fabric. Your Exclusive SEWING ADVISOR™ feature will select the best stitch, stitch length, stitch width, tension, presser foot pressure and sewing speed for each fabric type. Follow other recommendations given on the Ultimate Interactive Screen.

SEAM/OVERCAST FOR RIBBING



The Seam/Overcast technique is perfect for stitching ribbed neckbands and cuffs.

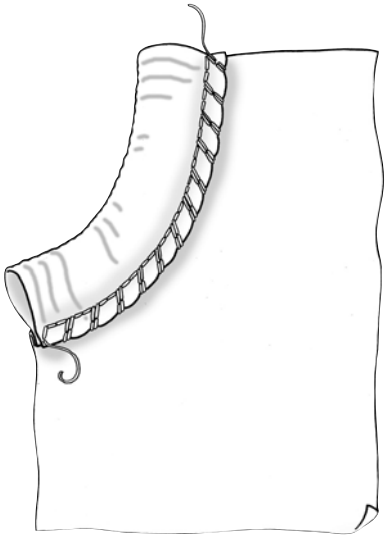
FABRIC: Sweatshirt fabric and ribbing strip.

SELECT: Stretch medium and Seam/Overcast.

USE: Presser foot B and size 90 stretch needle as recommended.

THREAD: Regular sewing thread.

Cut a mock neckline in the stretch fabric. Fold the ribbing double. Put the sweatshirt material and the ribbing right sides together. Sew the ribbing to the fabric with a 1/4" (6 mm) seam allowance. Stretch the ribbing while sewing.



BASTE

Basting is temporary stitching for fitting garments, gathering and marking.

The SEWING ADVISOR™ feature automatically sets a long stitch length and reduces the tension so the threads are easy to remove or to pull for gathering.

FABRIC: Woven medium, cut in two.

SELECT: Woven medium fabric and Baste.

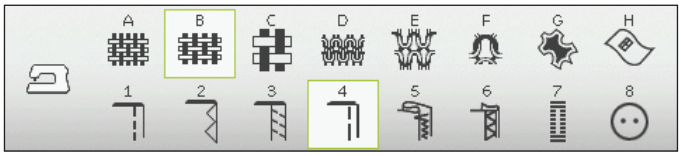
USE: Presser foot A and size 80 needle as recommended.

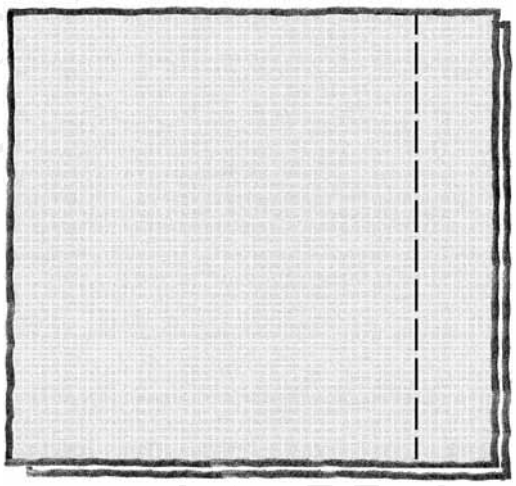
Place the fabrics right sides together. Put the fabric in position under the presser foot.

SEAM ALLOWANCE: 5/8" (15 mm).

SEW:

- Step on the foot control. The presser foot lowers automatically.
- Stitch along seam line.
- Touch Selective Thread Cutter.
- Pull bobbin thread to remove stitching.





BLIND HEM

The blind hem creates an invisible hem on garments. There are two types of blind hem; one is recommended for medium to heavy woven fabrics, the other for stretch.

The blind hem is not suggested for light weight fabric, but your Exclusive SEWING ADVISOR™ feature will select the best stitch possible.

FABRIC: Wool or other medium-weight materials.

SELECT: Woven medium and Blind Hem.

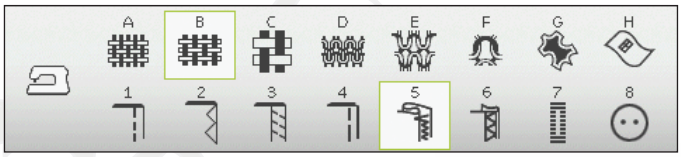
USE: Presser foot D and size 80 needle as recommended.

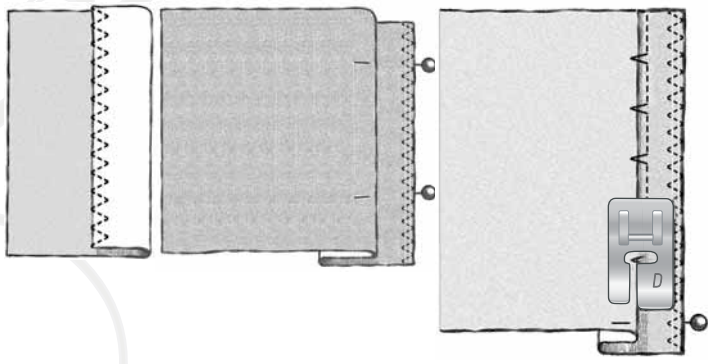
THREAD: Regular sewing thread.

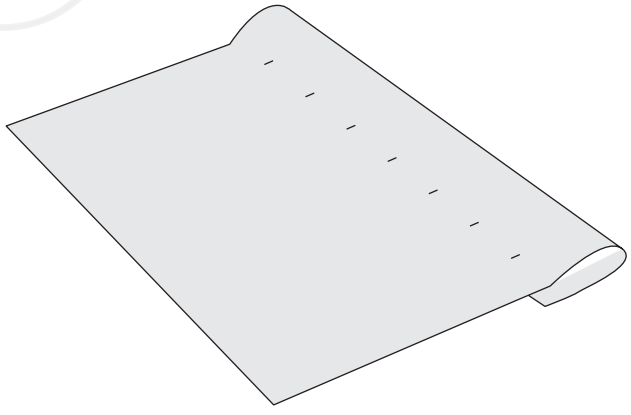
Fold the fabric as illustrated. Make sure the folded edge of the fabric follows the inside of the right "toe" of presser foot D.

Step on the foot control. The presser foot lowers automatically.

The left swing of the needle should just catch the edge of the folded fabric. If neccessary, adjust the stitch width as needed to barely "catch" the fold by touching + or – on the width adjustment icon on your Ultimate Interactive Screen. After finishing your seam, touch the Selective Thread Cutter.

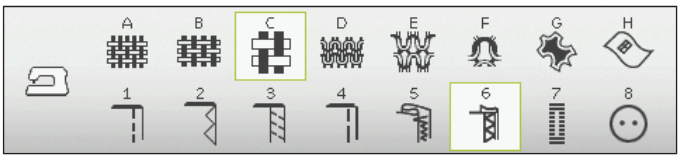






HEM

The Hem technique on your Exclusive SEWING ADVISOR™ feature will select the visible or topstitch hem that is best for your fabric weight and type. For woven fabric and leather and vinyl, a straight stitch is selected. For stretch fabrics, stitches that stretch are selected.



JEANS HEM

When sewing over seams in extra heavy fabric or a blue jeans hem, the foot can tip as it rides over the seam. The needle can hit the tipped foot and break. Use the multipurpose tool to balance the height of the hem as you sew.

FABRIC: Denim fabric.

SELECT: Woven heavy and Hem.

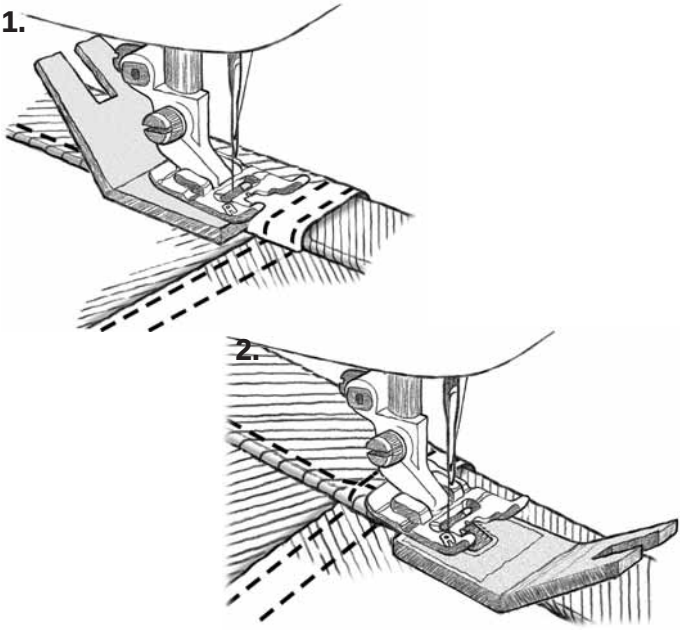
USE: Presser foot B as recommended and size 80 jeans needle.

Touch needle stop up/down to select the needle down position. Begin sewing the bottom hem at or near the center back. As you near the side seam, stop sewing. Your machine stops with the needle in the fabric and raises the presser foot. Insert the multipurpose tool from behind.

Both sides of the multipurpose tool are raised. Use the side which corresponds closest to the thickness of the seam. Step on the foot control to lower the presser foot and continue sewing slowly over the thick seam.

Stop sewing again just in front of the seam (notice how the needle is in the fabric). Remove the multipurpose tool and re-insert it under the presser foot from the front.

Sew a few stitches until the whole presser foot has passed the seam and is resting on the multipurpose tool. Stop sewing once again. The needle is in the fabric, and the presser foot lifts. Remove the multipurpose tool. Continue sewing the hem.

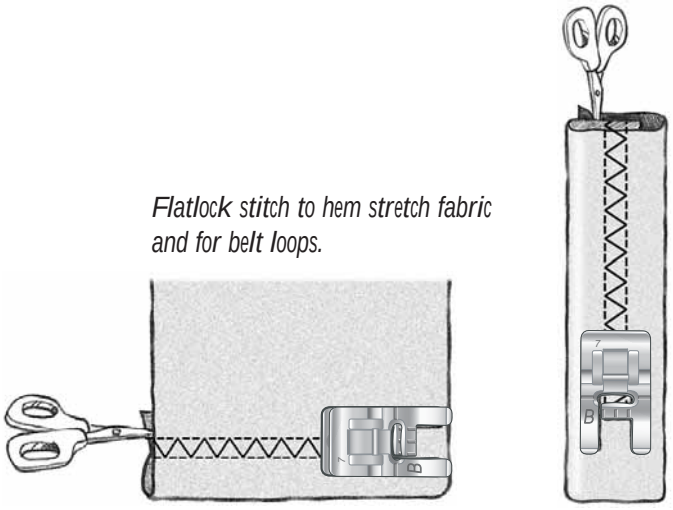


STRETCH HEM

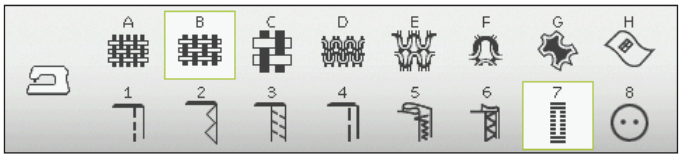
Select Stretch Medium and the Exclusive SEWING ADVISOR™ feature selects a flatlock stitch. Follow other recommendations given on the Ultimate Interactive Screen.

Fold a hem to the wrong side and stitch with flatlock stitch from the right side. Trim away excess fabric. Use this technique for belt loops too.

Flatlock stitch to hem stretch fabric and for belt loops.



PERFECTLY BALANCED SENSOR ONE-STEP BUTTONHOLE



The Exclusive SEWING ADVISOR™ feature will select the best buttonhole and Stitch Settings for your fabric. Fabric should be interfaced and/or stabilized where buttonholes are to be sewn.

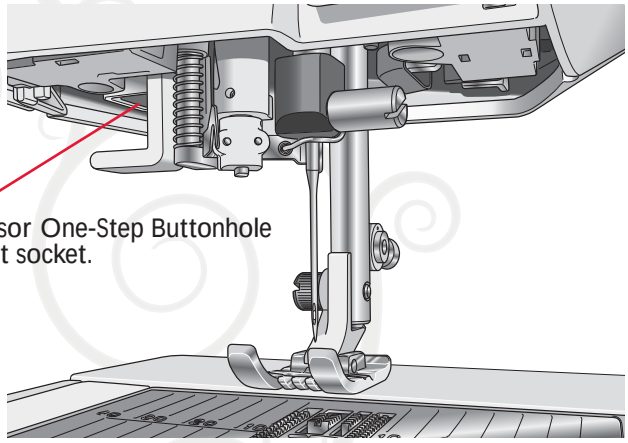
You can also select your buttonhole directly from the Buttonhole Menu B.

FABRIC: Woven medium and stabilizer.

SELECT: Woven medium fabric and Buttonhole.

USE: Size 80 needle as recommended.

1. Snap on the Sensor One-Step Buttonhole Foot.
2. Plug the cord into the socket to the left underside in front of the Adjustable E LIGHT™ system(a).
3. Place your button on the buttonhole ruler on the baseplate on the machine.
4. Set the size of the button in mm on your screen.



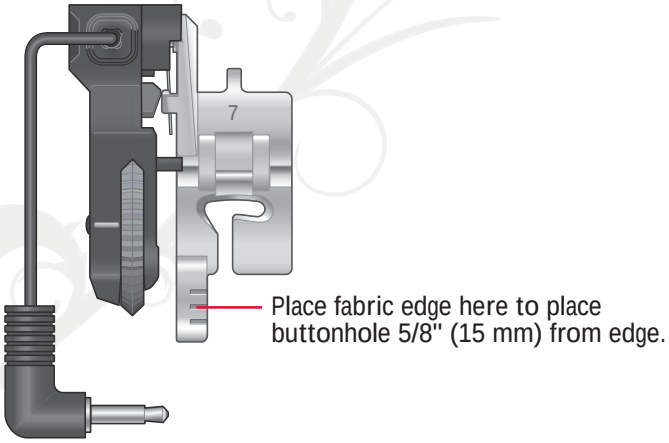
(a)
Sensor One-Step Buttonhole Foot socket.

Before sewing, line up the white area on the side of the wheel with the white marking line on the foot.

When sewing, your machine automatically sews the buttonhole long enough to fit the selected button size.

The buttonhole size needed will vary with the thickness and style of your button. Always stitch a sample buttonhole on scrap fabric first.

Note: For woven heavy and leather, the Exclusive SEWING ADVISOR™ feature selects buttonholes that should not be sewn with the Sensor One-Step Buttonhole Foot.



Sew the buttonhole:

- Fold fabric in two and place stabilizer underneath.
- Mark the buttonhole placement on your fabric with your PICTOGRAM™ Pen. Set the length of the buttonhole.
- Place fabric under Sensor One-Step Buttonhole Foot. The measurement wheel can be raised by lifting it, which makes it easier to place the fabric under the presser foot.

Note: Use the markings on the left toe of the Sensor One-Step Buttonhole Foot to position the garment edge. Place the edge of the garment at the middle mark to have 5/8" (15 mm) from the edge to

the buttonhole.

- Step on the foot control. The Sensor One-Step Buttonhole Foot lowers automatically. A straight stitch is sewn away from you stabilizing the left buttonhole column, then the satin column is sewn toward you. This is repeated for the right column. The bartacks are automatic (see illustration 1). Keep the foot control depressed until the Selective Thread Cutter cuts the threads and the Sensor One-Step Buttonhole Foot is raised.

  When sewing buttonholes without satin stitches or when using presser foot C, the sewing steps are different (there is no straight stitch step). See illustration 2.

MANUAL BUTTONHOLE

To sew a manual buttonhole, use buttonhole foot C.

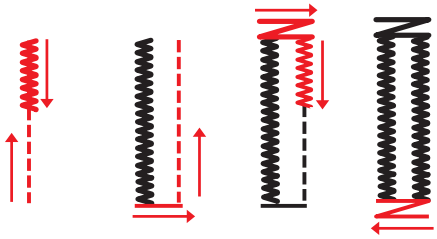
- Sew the first column as long as you want the buttonhole to be.
- Touch the reverse button. The machine sews the bartack and the second column.
- When the columns are aligned, press the reverse button to sew the second bartack.

Note: If you are sewing buttonholes in a very narrow area, snap on the standard foot C.

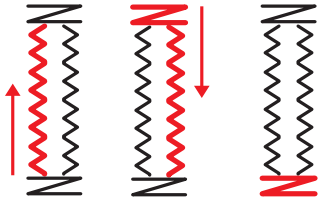
Note: In your accessory tray there is a special hook where you can hang your Sensor Buttonhole foot (see picture 1 and 2).

EMBROIDERED BUTTONHOLE

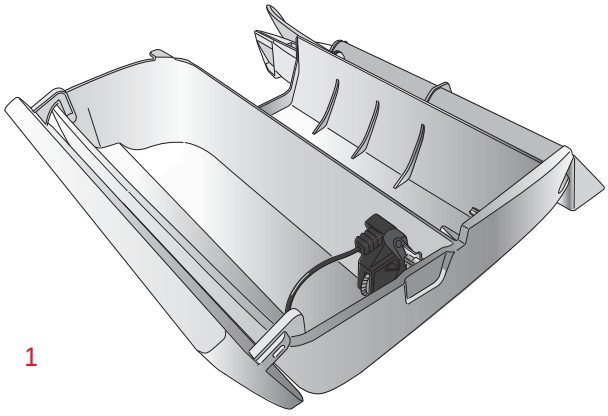
Buttonholes can also be stitched out in an embroidery hoop. See page 7:3.



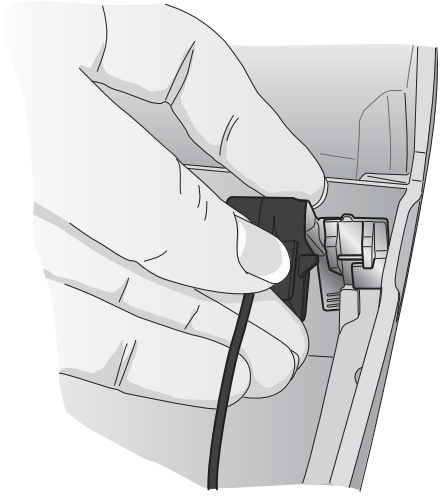
1. Sewing direction for satin stitch buttonholes sewn with the Sensor One-Step Buttonhole Foot.



2. Sewing direction for buttonholes without satin stitches or satin stitch buttonholes sewn with presser foot C.

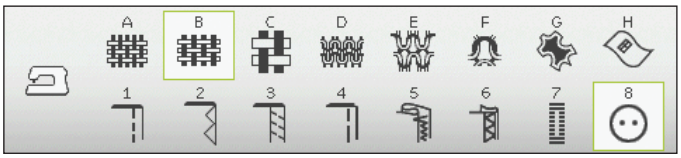


1



2

PROGRAMMABLE BUTTON SEW ON

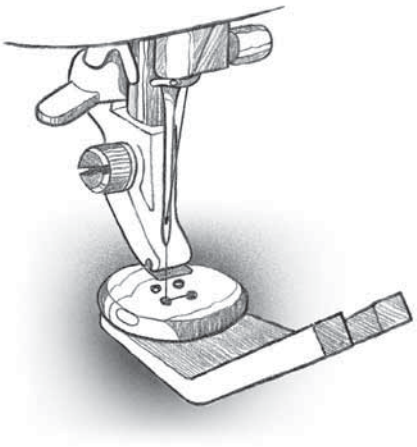


Sew buttons, snaps, hooks and eyes quickly with your machine.

FABRIC: Woven medium.

SELECT: Woven medium and Button on the Exclusive SEWING ADVISOR™ feature. The feed teeth are lowered automatically.

USE: Size 80 needle and the multipurpose tool to create a thread shank, as recommended. Snap off presser foot.



SEW:

- Place fabric, multipurpose tool and button under the ankle with the holes in the button lined up with the swing of the needle. Check the swing of the needle using the mirror side-to-side button to be sure the needle will not hit the button. Adjust stitch width if needed. Bring the needle down into the hole of the button.
- Set the number of stitches to sew on the button (see page 4:7). 6-8 stitches is normal.
- The machine stitches the button and automatically ties off.

Note: Place the thin end of the multipurpose tool under the button when sewing on light fabrics. Use the thick end for heavier fabrics. Hold in place on the fabric with transparent tape.

Note: The recommended width of 3.0 is set for most buttons. If you sew a tiny button or a very large coat button, decrease (–) or increase (+) the stitch width until the swing of the needle sews in the holes of the button or snap.

4-WAY STITCHES - MENU S

The 4-way mending stitch allows you to stitch several sturdy stitches in four different directions. You have a choice of 17 different 4-way stitches. You can select the one that is perfect for the weight and type of fabric you are using. This is especially helpful when patching trouser legs on a free arm. The 4-way stitches are programmed at a fixed length and stitch width.

FABRIC: Woven heavy, two pieces, one a patch.

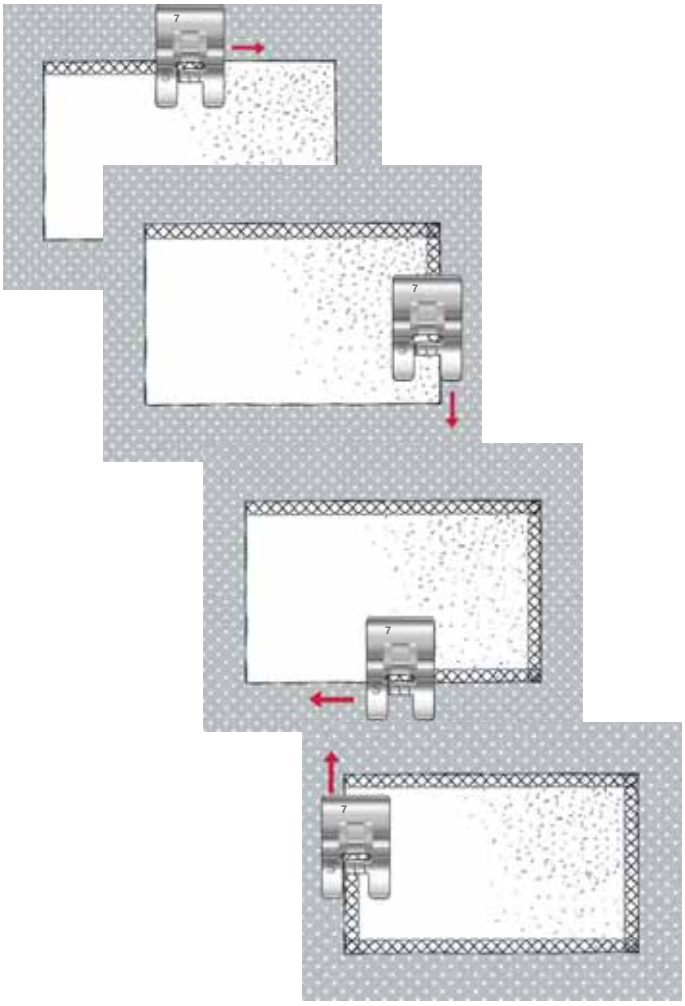
SELECT: Woven heavy on your Exclusive SEWING ADVISOR™ feature, menu S - 4-way stitches, stitch S1:8.

USE: presser foot S and size 90 needle as recommended.

SEW:

- Place the patch on the larger fabric in position under the presser foot. The sewing machine will start to sew across the top of the patch from the top left corner as shown on the screen.
- Touch reverse or the 4 Direction Sewing icon and adjust fabric if necessary. Step on the foot control. The presser foot lowers automatically.
- Sew across the top and touch the 4-way symbol or the reverse button to change sewing direction. The direction of the stitch on the screen will change.
- Sew down the side of the patch. Continue sewing around the patch, touching the 4-way icon or the reverse button to change sewing direction.
- Touch the Selective Thread Cutter button.

Note: Depending on which stitch you are using, the corners may be irregular if changing sewing direction without completing the stitch first. To sew beautiful corners with 4-way stitches, press the STOP button before changing sewing direction. This will complete the current stitch before changing direction.



8-WAY STITCHES – MENU T

There are two different stitches, straight and reinforced straight stitch, in the T menu. Touch the arrows to select one of the pre-set sewing directions. To fine tune the direction of the stitch, use the stitch width and stitch length icons.

Note: The stitch length and width icons no longer adjust the length and width of the stitch. In menu T, these icons change the sewing direction of the stitch.

Program these stitches alone or with decorative stitches from other menus to create unique stitches or borders.

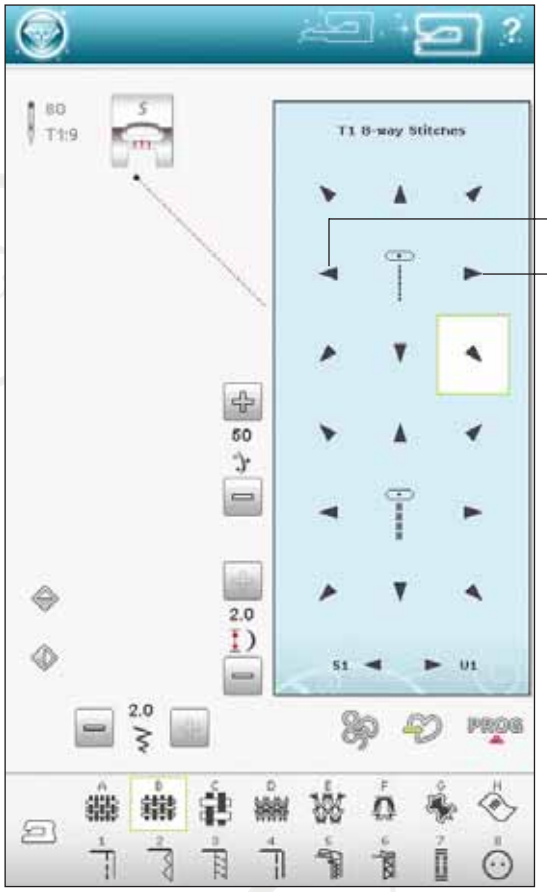
FABRIC: Woven medium and stabilizer.

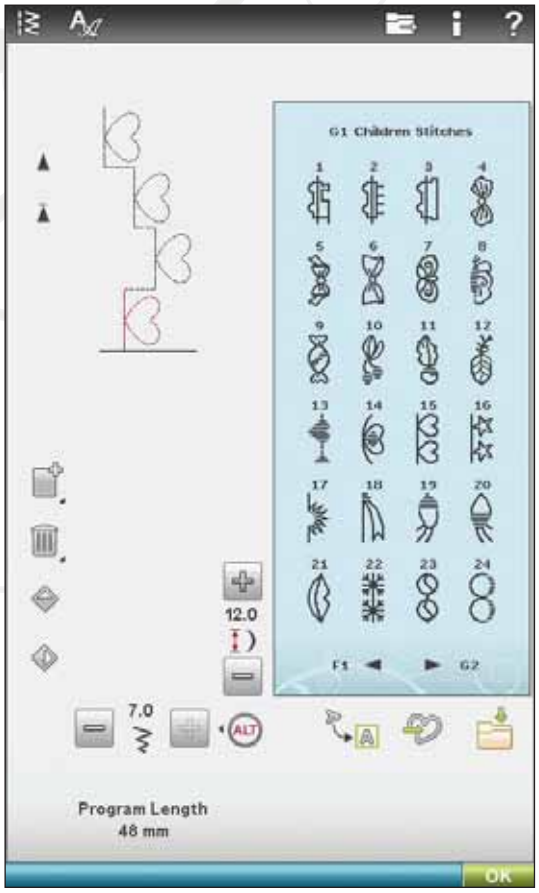
SELECT: Woven medium on your Exclusive SEWING ADVISOR™ feature, menu T - 8-way stitches.

USE: Thread the top thread with embroidery thread, and use bobbin thread for the bobbin: Use presser foot B and size 80 needle as recommended.

SEW:

- Touch the Program icon.
- Select stitch G1:15.
- Select T1 and click 3 times on the straight stitch to the right.
- Select stitch G1:15.
- Select T1 and click 3 times on the straight stitch to the right.
- Select stitch G1:15.
- Select T1 and click 3 times on the straight stitch to the left.
- Select stitch G1:15.
- Select T1 and click 3 times on the straight stitch to the left.
- Touch OK.
- Place the fabric and stabilizer in position under the presser foot. Press the foot control to lower the presser foot and start sewing your programmed stitch.





BARTACKS

Secure elastic ends, drapery pleats, belt loops, and pocket corners with the same look as ready-to-wear.

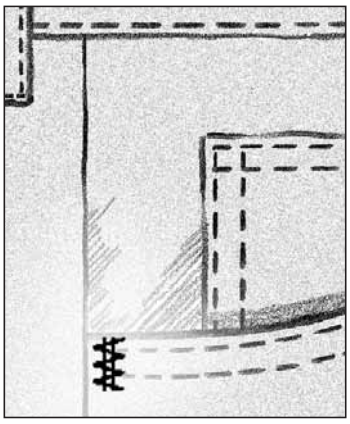
Fabric: Woven heavy.

Select: Woven heavy, and stitch A2:32.

Use: Presser foot B and size 90 needle as recommended.

Sew:

- Place fabric under the presser foot.
- To lower the presser foot, step on the foot control and stitch.
- Your machine will stop automatically when the bartack is completed.



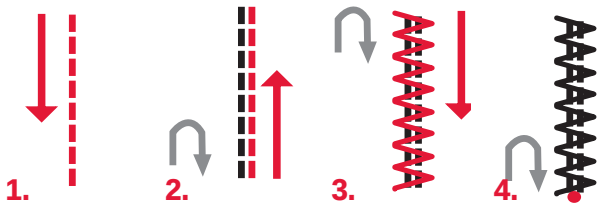
MANUAL BARTACK

Decide the length of your bartack manually with stitch A2:36.

Sew:

Place fabric under the presser foot. Touch Sensor Foot Down and Pivot twice and adjust the fabric if necessary. Step on the foot control, the Sensor Foot lowers automatically and stitch.

- Your machine will sew a straight stitch until you touch Reverse.
- Your machine will then sew in reverse until you touch reverse again.
- Your machine will then sew a zigzag, covering the straight stitches.
- Touch reverse to automatically tie off and cut the threads.



SAVE TO MY STITCHES

If you have made changes to a stitch and want to save them, touch the Save to My Stitches icon. A window will open the U-menu with 12 different spaces on each page to save personalized stitches. Touch a space below a number where you want the stitch to be saved. All your previously saved stitches will be shown.

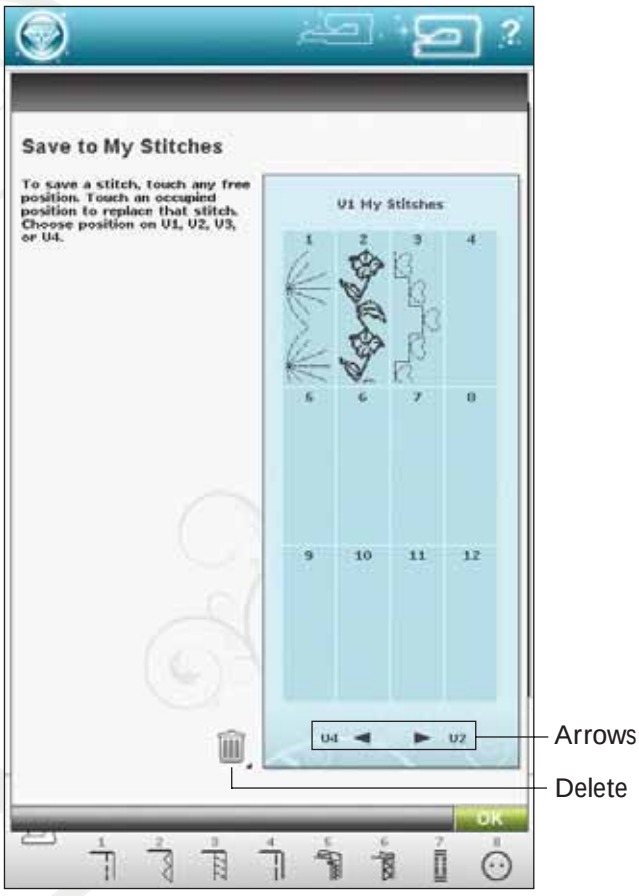
You can scroll through the different menus to find a free position, using the arrows at the bottom. Any box without a stitch is a free position and can be used to save your new stitch. Simply touch the position and your stitch is saved.

Any box with a stitch is an occupied position. You can overwrite a previously stored stitch. Simply touch the stitch to overwrite. A pop-up message will ask you to confirm that you want to overwrite the previously stored stitch. Cancel the saving process by touching the cancel icon. The saving window will close and you return to the previous screen.

To delete a saved stitch or stitch program, touch the delete icon. The delete icon will be active until a stitch is selected and deleted or until the delete icon is touched again. A pop-up message will ask you to confirm the deletion.

Touch & Hold the delete icon to delete all stitches saved in My Stitches at one time. A pop-up message will ask you to confirm the deletion.

See page 5:5 to read more about how to save to My Stitches.



SPECIAL SEWING TECHNIQUES

The stitch menu X- Specialty Stitches, includes special sewing technique stitches like candlewicking and edge stitches. These techniques may require some special presser feet and accessories. This is indicated by the optional presser foot icon.

Note: Use the Quick Help to find detailed information for each stitch.

Taper Satin Stitch

The taper stitch automatically tapers the satin stitch for corners and points and can be used for satin stitch lettering. Stitch a diamond of tapered satin stitch on a piece of stabilized fabric.

SELECT: Menu F, Appliqué Stitches, choose stitch F1:6

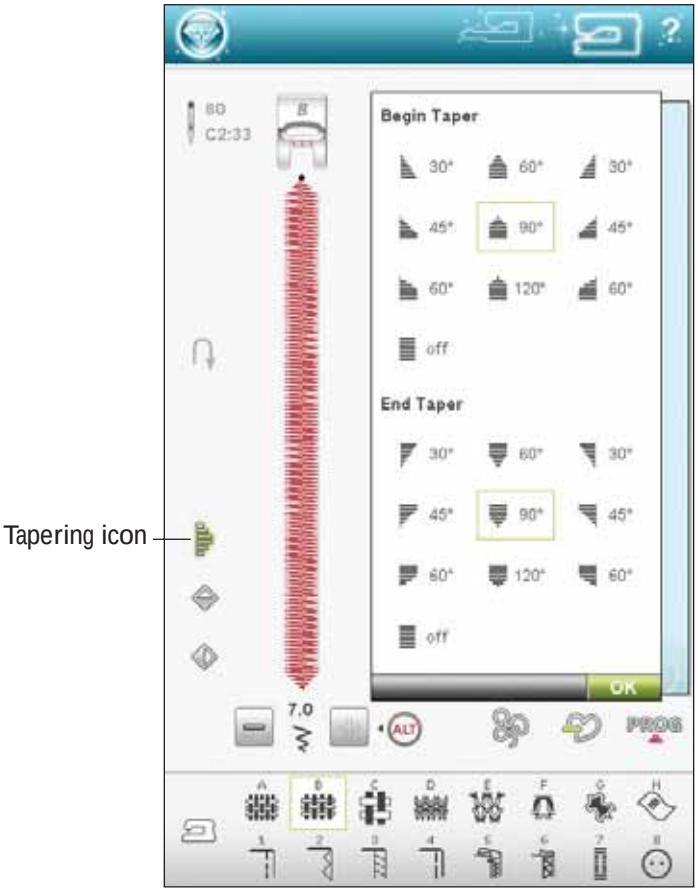
USE: Presser Foot B, as recommended.

SEW: The stitch will automatically taper from a point to the 1/4" (7 mm) satin stitch width.

- If you want to change to another angle, touch the tapering icon. Choose what sort of beginning and end you wish to have on your stitch.

Note: For narrower satin stitch, adjust the stitch width.

- Start sewing. The machine will sew the tapered point and then continue with a satin stitch at the selected width. When the satin is as long as desired, touch the reverse button. This will start the tapering of the end.
- Once the stitch is finished, touch the Selective Thread Cutter button.
- Touch the STOP button to repeat sewing the same tapered satin stitch automatically.



DECORATIVE TAPERING STITCHES

Menu Z includes decorative stitches that can be tapered. Touch the tapering icon to change angle. The machine will sew the beginning tapered point and then continue with the selected stitch. When it has sewn the desired length, touch the reverse button. The stitch will taper to the end.

Tapering off

Choose Taper "off" if you don't want Tapering at the beginning or end of the stitch. If you select Taper "off" on both the beginning and end then the stitch will be a regular stitch without tapering.

SEWING POP-UP MESSAGES

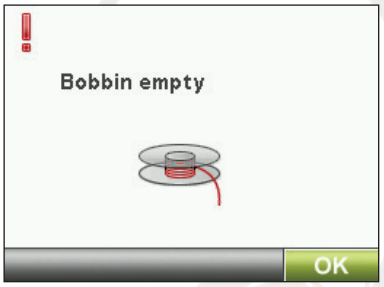
System busy

An hour glass is shown when the machine is loading, saving, moving files or anything that takes time.

Bobbin empty

The machine stops automatically and a pop-up message appears on the screen when the bobbin is almost empty. Replace the empty bobbin with a full one.

Note: It is possible to sew until the thread has run out. Continue sewing without closing the pop-up message.



Check needle thread

The machine stops automatically if the needle thread runs out or breaks. Re-thread the needle thread, close the pop-up message and start sewing again.

Remove Sensor One-Step Buttonhole Foot

The Sensor One-Step buttonhole foot is used only for buttonholes. A pop-up message will advise you to remove it for all other sewing.

Twin Needle

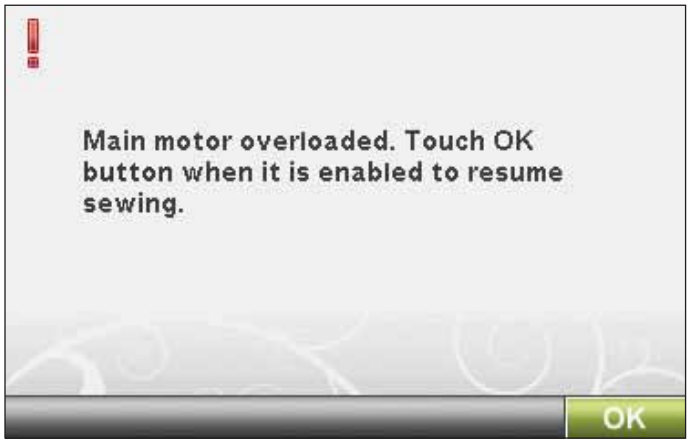
The following pop-up message appears when you turn on the machine and choose a stitch not suitable for twin needle or you had the Twin Needle activated before turning the machine off.

Stitch Width Safety

When Stitch Width Safety is activated, the following pop-up message appears when you turn on the machine or choose a stitch not suitable for Stitch Width Safety.

Main motor overloaded

If you are sewing on very heavy fabric or if the machine is blocked when sewing, the main motor can get overloaded. When the main motor and power supply are no longer overloaded, the OK button will be enabled. Touch OK to resume sewing.



5 Program

PROGRAM

You can combine stitches and/or letters and numbers to create stitch programs. Combine various decorative stitches and stitch fonts from the machine or from an external device.

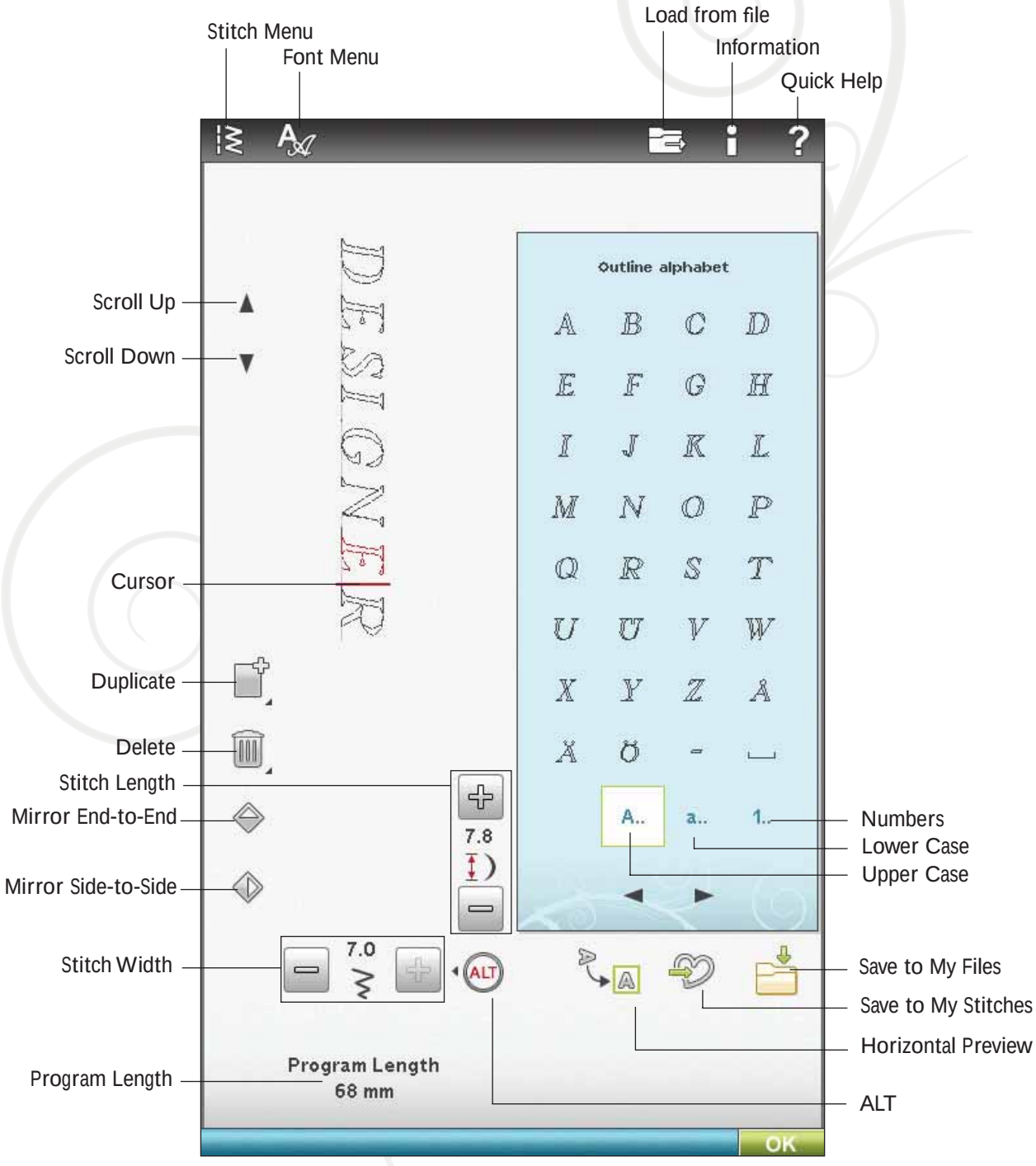
You can program stitches up to approximately 500mm (20”) long. You can see how long your actual stitch program is at the bottom of the window.

You can program in both Sewing and in Embroidery Edit.

Note: If Sewing Mode is active and your stitch program is ready to be sewn, you can also close the active function by pressing the foot control, or by pressing the Start/Stop button. Not all stitches are available to program. A pop-up message will notify you if you try to select an unavailable stitch.

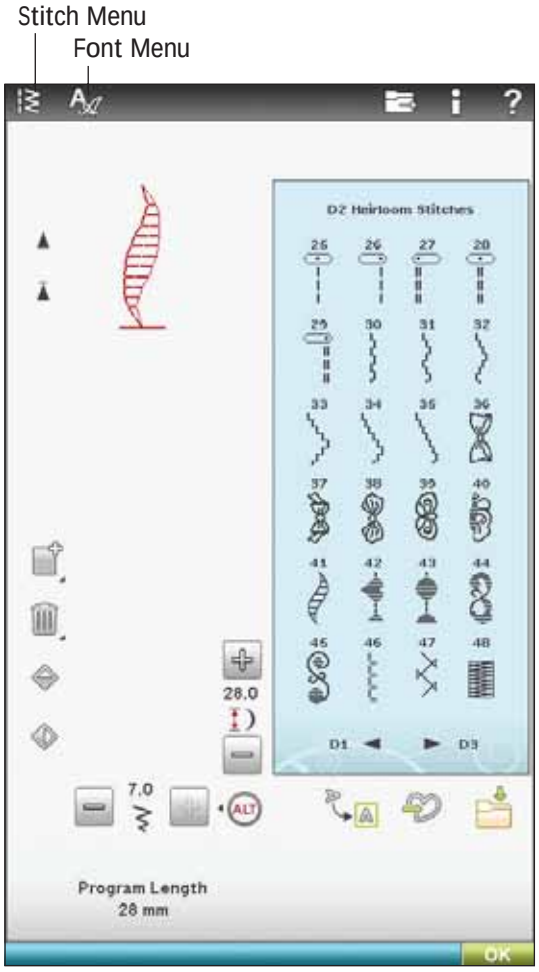
Note: A straight line at the point of the Scroll Up or Down icon indicates scroll to beginning or end.

PROGRAM - OVERVIEW OF ICONS



TO PROGRAM IN SEWING MODE

- To enter the Program window, touch the PROG icon.
- Touch the Stitch or Font Menu to open the stitch or a font you wish to use.
- The active position is marked by a cursor and the selected stitch or letter will be marked in red. Inserted stitches will be placed at the cursor. Only the selected stitch can be adjusted. Move the cursor through the stitch program using the scroll arrows.
- To close the Program window and sew your programmed stitch, touch the OK icon or just press the foot control.



TO PROGRAM IN EMBROIDERY EDIT

- To enter the Program mode in Embroidery Edit, touch the Start Menu icon to foldout the Extended toolbar.
- Touch the Stitch or Font Menu to open stitch menu or a font you wish to use.
- The active position is marked by a cursor and the selected stitch or letter will be marked in red. Inserted stitches will be placed at the cursor. Only the selected stitch can be adjusted. Move the cursor through the stitch program using the scroll arrows.
- To close the Program window and embroider your Stitch program, touch the OK icon.

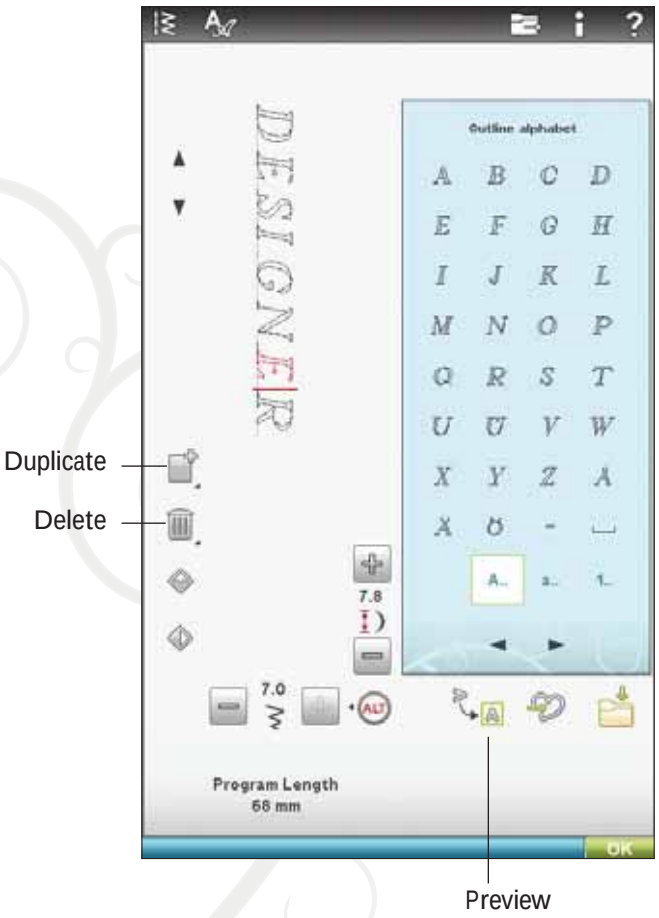
To edit a programmed stitch in Embroidery Edit

If you want to edit an already programmed stitch select the stitch and touch the Edit Stitch Program icon and you will enter the Program window again.

Edit Stitch Program

Note: If you have selected tapering in the stitch program, it will be converted to a design when loaded to Embroidery Edit, and cannot be opened for editing again.

EDIT YOUR STITCH OR LETTERING PROGRAM



Insert a stitch or letter

Move the cursor where you want to add a stitch or letter. Select the desired stitch you want to insert. It will be placed at the cursor.

Adjust text and stitches

You can mirror, adjust length and width or change the density of the selected stitch, in the same way as when in Sewing Mode.

Delete a stitch or letter

If you want to delete a stitch, move the cursor to the stitch you want to delete (the selected stitch will be red) and touch the Delete icon. Use the Touch & Hold function to delete the entire program.

Duplicate a stitch or letter

To duplicate a stitch, move the cursor to the stitch you want to duplicate (the selected stitch will be red). Touch the Duplicate icon to copy the selected stitch.

Note: Make your adjustments on the stitch before duplicating and the copied stitch includes the adjustments.

Use the Touch & Hold function to bring up a pop-up message where you can enter the exact number of copies you want to insert.

Replace a stitch or letter

To replace a stitch, simply select it (using the arrows to select the stitch you wish to replace) and touch Delete. Insert the new stitch. It will be placed at the cursor.

Zoom to All

If the stitch or stitch program is wider than what can be shown on the screen, you may use the Zoom to All icon to see the entire width of the stitch program.

Note: Zoom to All is only visible if the stitch or stitch program is wider than the stitch field.

Preview

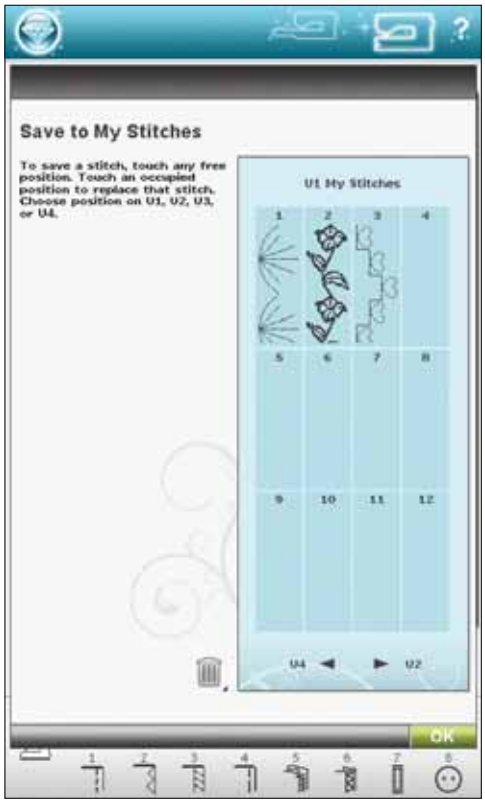
View your stitch program horizontally by touching the Preview icon. A pop-up displays your program in actual size. If the program is too long to be shown in total, use the cursor arrows to scroll through the program. To view the whole program, touch the Zoom to All icon. Touch OK to close the window.

ADJUST THE ENTIRE PROGRAM

To adjust the entire program, return to the stitch view by touching the OK icon. Adjustments made here will affect the whole program.

SAVE TO “MY STITCHES”

Touch the Save to My Stitches icon to open the dialogue for saving a stitch program or an adjusted stitch in “My Stitches”, the U menu. There are four U menus, which you can step between using the arrows.



Save on Free Position

Previously saved stitches or stitch programs are shown in the U-menu. The new stitch or program can be saved at any free position. Simply touch a free position, and your stitch or stitch program is stored there.

Save on Occupied Position

Touch an occupied position and a pop-up message will ask you to confirm the overwriting of the old stitch. Touch OK to replace the old stitch with the new one. Touch Cancel to close the pop-up message, and choose another saving position.

Cancel Save Process

To cancel the save process, close the window with OK instead of touching any storing position. The saving window will close, and you return to the previous screen.

Delete Saved Stitch or Program

To delete a saved stitch or program, touch the Delete icon. The Delete icon is active until a program is selected and deleted or until it is touched again. If a stitch is selected to be deleted a pop-up message will ask you to confirm the deletion.

Note: If you Touch & Hold on the Delete icon, you can delete all your stitches in My Stitches.

SAVE YOUR PROGRAM IN “MY FILES”

You can also save your program as a stitch file in the “My Files” folder or on a USB device.

In Program mode, touch the Save to My Files icon to open the Save Stitch window. The machine will give you a default name. If you want to change the name touch the Rename icon.

Select which folder to save in with the Touch & Hold function. Touch OK and your file is saved in that location (see File Manager, chapter 9).

STITCH PROGRAM COMMANDS

You can insert FIX, STOP and thread cut commands into the stitch program. These commands will be included in the stitch program and will always be performed when sewing it.

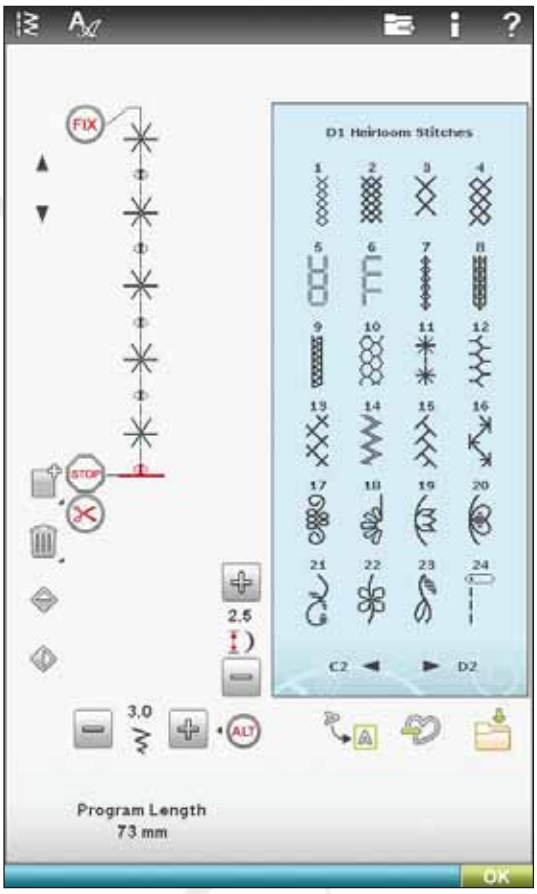
Note: If creating a stitch program in Embroidery Mode, tie-offs will be added automatically at the beginning and end, allowing you to create a stitch program in between. The commands can be removed.

Insert a STOP by touching the STOP button on your machine, if you want the machine to stop at a certain place in your programmed stitch. This is useful for example at the end of the stitch program if you want to sew it only once or to create a stitch program in several rows.

Insert the thread cut if you want the machine to tie-off and cut the threads and raise the presser foot.

Move the cursor to the position where you want to add a command. Touch the button and an icon will be added into the programmed stitch. This confirms that the command is inserted and it also shows where the command will be performed in the stitch program.

Note: The commands will appear on the screen in the order you program them.



SEWING A STITCH PROGRAM

To sew the stitch program, return to Sewing Mode or Embroidery Edit. Close Program mode by touching the OK icon.

Adjustments made in Sewing Mode or Embroidery Mode will affect the entire programmed stitch. However, these changes will not be saved if you return to Program mode.

If you make changes while in Embroidery Edit, and you save them, these changes will be saved as a design and can only be edited again in Embroidery Edit.

However, you can always open a stitch program made in Sewing Mode, in Embroidery Mode.

IMPORTANT PROGRAM MODE INFORMATION

Program can be used in either Sewing Mode or Embroidery Mode. A stitch program created when Embroidery Mode is active will become an embroidery design when saved and cannot be sewn as a stitch in Sewing Mode.

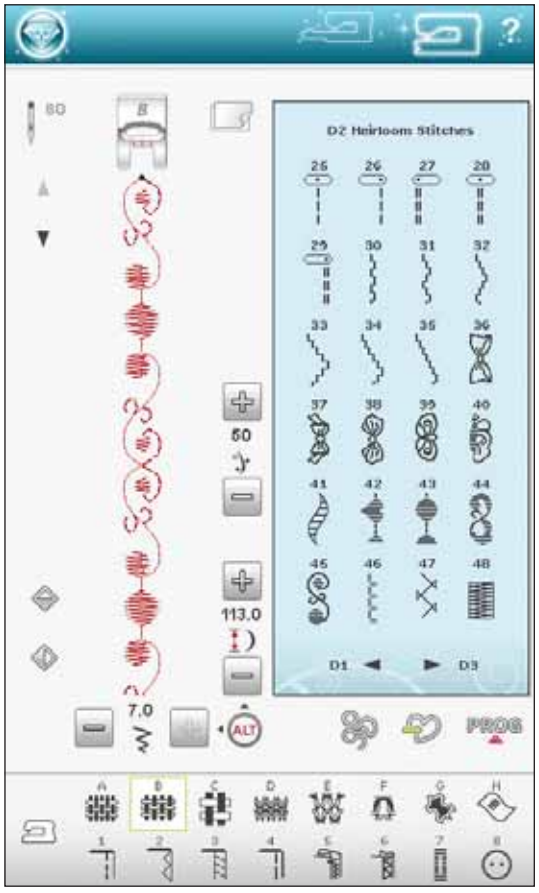
To save a stitch program

If Sewing Mode is active, you can save your stitch program in My Files. If Embroidery Mode is active, your stitch program will be loaded to Embroidery Edit, and can then be saved as a design. A stitch program created in Sewing Mode can be loaded manually into Embroidery Edit.

To re-load a stitch program

If Sewing Mode is active when closing the Program mode, your stitch program will be loaded to Sewing Mode and is ready to be sewn. If selecting another stitch in Sewing Mode and then re-opening the Program mode, your stitch program will remain unchanged. Every time Program mode is closed, the stitch program will be loaded to Sewing Mode.

If Embroidery Mode is active, your stitch program will be loaded to Embroidery Edit as a design. If you want to Edit your Stitch, touch the Edit Stitch icon.



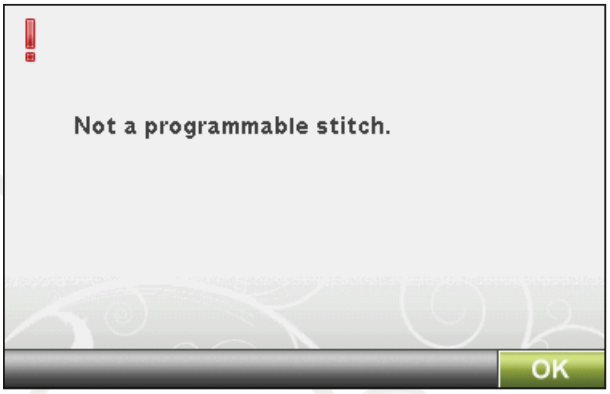
To use Program mode in either Sewing or Embroidery Mode

A stitch program created when Sewing Mode is active will not be available when opening Program mode after activating Embroidery Mode and vice versa. The created stitch program will not be transferred to the other mode.

PROGRAM POP-UP MESSAGES

Not a programmable stitch

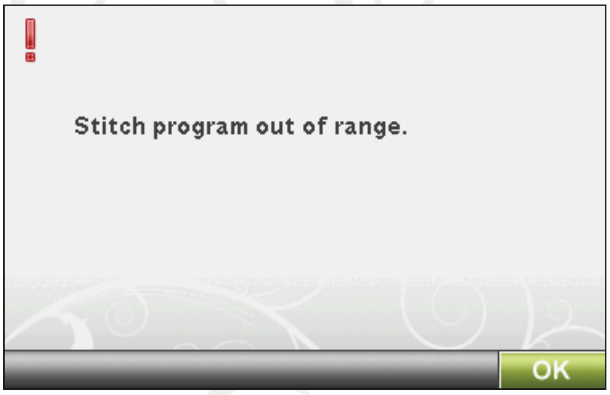
Some stitches are not possible to insert in a stitch program, for example buttonholes and four direction stitches.



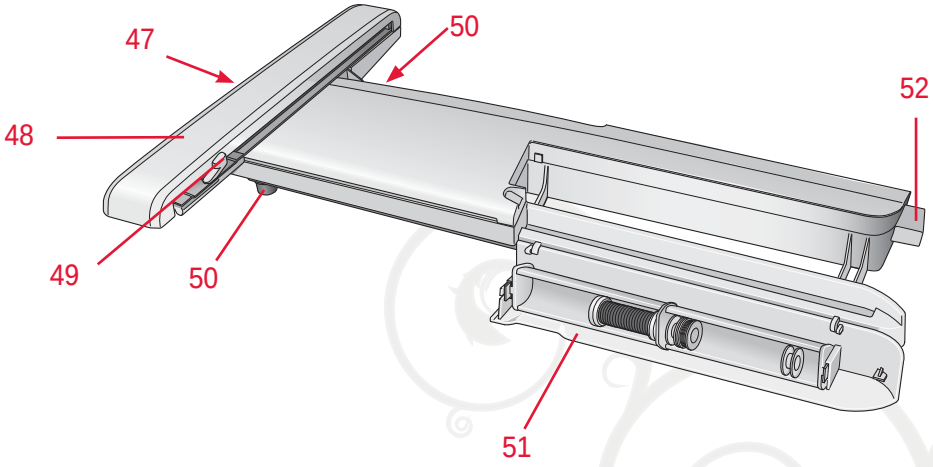
Stitch program out of range

The stitch you are trying to add will make the stitch program too long.

Your stitch program can be up to approximately 500mm (20”) long and contain up to 99 stitches. If the stitch program exceeds the maximum length this pop-up message will let you know.



6 Embroidery Set Up



EMBROIDERY UNIT OVERVIEW

(type BE17)

47. Embroidery unit release button (underside)
48. Embroidery arm
49. Embroidery hoop attachment
50. Level adjustment feet
51. Embroidery accesssory tray
52. Embroidery unit socket

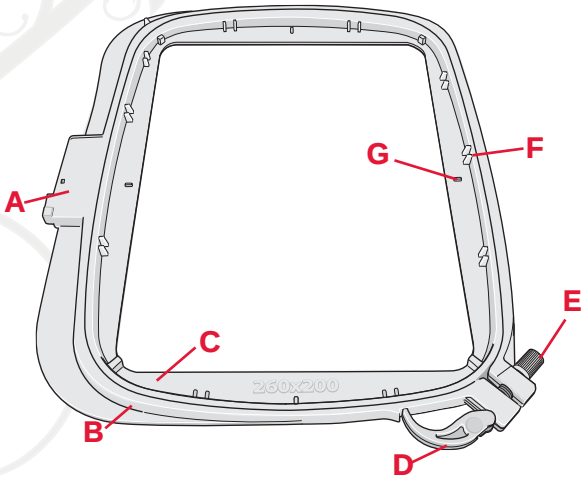
When removing the embroidery unit from the box for the first time, be sure the packing brace on the underside of the embroidery unit has been removed. Also place the embroidery unit molded packing material into the soft carrying bag for your embroidery unit.

Embroidery unit accessory tray

Use the tray in the embroidery unit to store accessories used for embroidering.

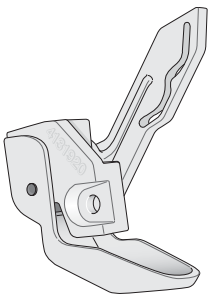
EMBROIDERY HOOP OVERVIEW

A Embroidery hoop connector
B Outer hoop
C Inner hoop
D Quick release
E Retaining screw
F Ribs for fitting the clips
G Center marks



Sensor Q-foot

The Sensor Q-foot is always recommended for embroidery. This foot is also used for free motion sewing, quilting and embroidering on especially thick or spongy fabric.



DESIGNS

Over 200 designs included in the memory in your machine. These designs are shown in the DESIGNER DIAMOND *deLuxe*™ Sampler book. Also included is get the Classic Collection CD. The CD is attached at the back of the sampler book.

DESIGNER DIAMOND *DELUXE*™ SAMPLER BOOK

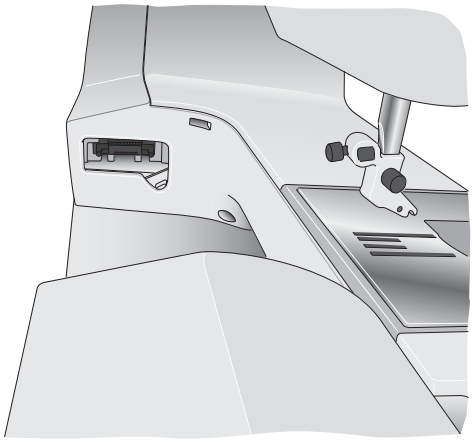
Page through the DESIGNER DIAMOND *deLuxe*™ Sampler book for designs and fonts.

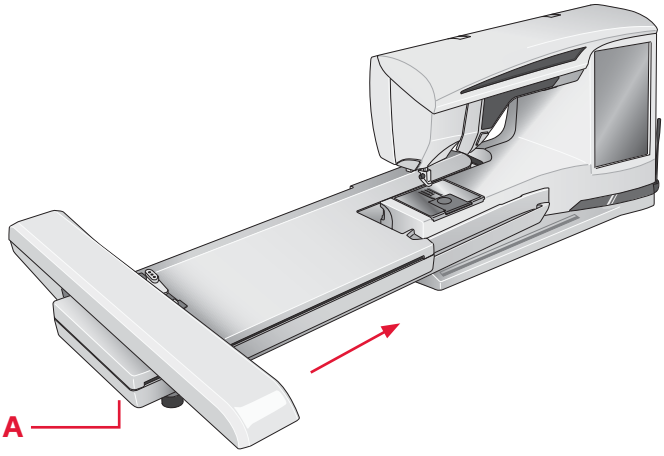
The design number, stitch count (number of stitches in the design) and the design size are displayed next to each design. The suggested thread color for each color block is shown.

CONNECT THE EMBROIDERY UNIT

1. Slide the sewing accessory tray off.
2. There is a covered socket at the back of the machine. Turn the cover to the right to open it. The embroidery unit plugs into the socket.
3. Slide the embroidery unit onto the free arm of the machine until it plugs firmly into the socket. If needed, use the level adjusting feet so that the machine and embroidery unit are even. If the machine is turned off, turn it on.
4. A pop-up message tells you to clear the embroidery arm and remove the hoop for positioning. Touch OK. The machine will calibrate and the embroidery arm will move to the ready position.

Note: DO NOT calibrate the machine with the embroidery hoop attached as this can damage the needle, presser foot, hoop and/or the embroidery unit. Be sure to clear all materials from around the machine before calibrating so that the embroidery arm does not bump into anything while calibrating.





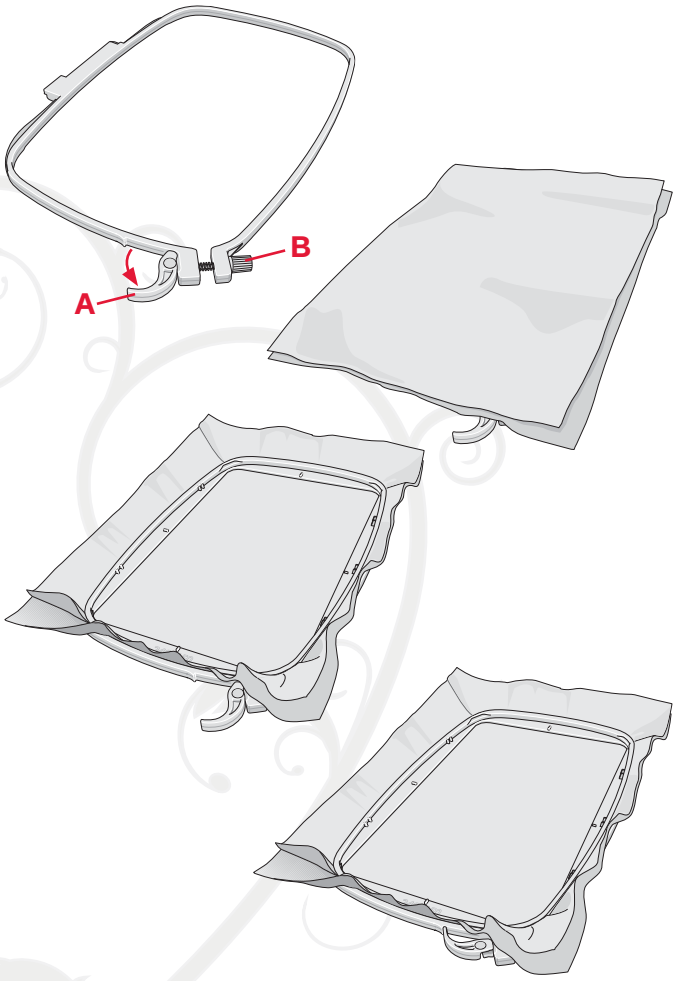
REMOVE THE EMBROIDERY UNIT

1. To store the embroidery unit in the embroidery case, move the embroidery arm to Park Position by selecting Park Position on the screen in either Embroidery Edit or Embroidery Stitch-Out.
2. Press the button at the left, underneath the embroidery unit (A) and slide the unit to the left to remove it.
3. Store the embroidery unit in the original packing material, place in the soft carrying bag.

TO HOOP THE FABRIC

For the best embroidery results, place a layer of stabilizer beneath the fabric. When hooping stabilizer and fabric make sure that they are smooth and securely hooped.

1. Open the Quick Release (A) on the outer hoop and loosen the screw (B). Remove the inner hoop. Place the outer hoop on a firm flat surface with the screw on the lower right (B). There is a small arrow in the center of the lower edge of the hoop which will line up with a small arrow on the inner hoop.
2. Place the stabilizer and fabric, with the right sides facing up, on top of the outer hoop. Place the inner hoop on top of the fabric with the small arrow at the bottom edge.
3. Push the inner hoop firmly into the outer hoop.
4. Close the Quick Release (A). Adjust the pressure of the outer hoop by turning the retaining screw (B). The fabric should be taut in the hoop for the best results.



SLIDE ON THE HOOP

Make sure that the accessory tray on the embroidery unit is closed. Slide the hoop connector into the hoop attachment from front to back until it clicks into place.

To remove the hoop from the embroidery arm, press the grey button on the hoop attachment and slide the hoop towards you.

AUTOMATIC JUMP STITCH TRIM

This machine features Automatic Jump Stitch Trim. This function saves you time trimming after the embroidery is completed. As you embroider, the machine will trim the top jump stitch thread and pull the thread end to the underside of the fabric.

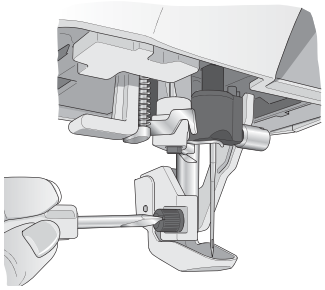
The default setting is on. To turn it off, go to the SET Menu, Machine Settings and deselect Automatic Jump Stitch Trim.

NOTE: *The machine will also cut the thread after you have changed to a new thread color. When you start embroidering again, hold the thread end so you can easily remove it after it is cut.*

Not all designs are programmed for Automatic Jump Stitch Trim. Jump stitch trim commands can be added to any design using the 5D™ Embroidery Software. Read more about Automatic Jump Stitch Trim in chapter 3.

GETTING STARTED EMBROIDERING

1. Always attach the Sensor Q-foot to get the best result. Read more about attaching the presser foot on page 2:9. After attaching the embroidery foot and embroidery unit, insert a bobbin with embroidery bobbin thread.



2. Touch the Start Menu. The Design Menu opens to select a design. Touch the design you want to stitch out and it will load to Embroidery Edit.

3. Hoop a piece of fabric and slide the hoop onto the embroidery arm.

4. When you are ready to embroider, switch from Embroidery Edit to Embroidery Stitch-Out by touching the GO! icon on the task bar.

5. Thread the machine with the first color in the Color Block list.

6. Clear sufficient space around the machine to accommodate movement of the embroidery arm and the hoop. Hold the needle thread and touch the Start/Stop button or the foot control. The machine starts embroidering.

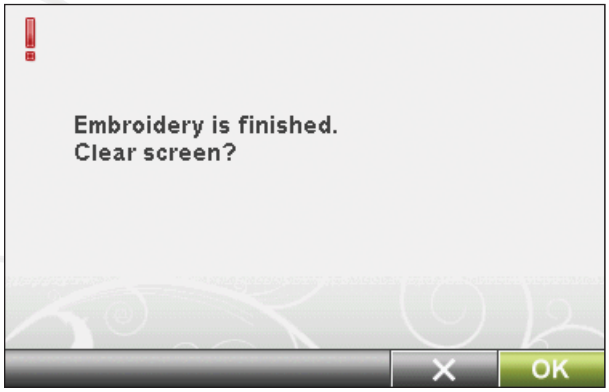
Note: If Automatic Jump Stitch Trim is not activated the machine will stop after stitching a few stitches. A pop-up message will appear on the screen asking you to cut the thread end. Cut the thread and press Start/Stop to continue embroidering.

7. When the first color is completed, your machine cuts the thread end and stops. A pop-up message appears asking you to change thread color. Re-thread with the next color and continue embroidering by pressing Start/Stop. Hold the thread end. The machine will trim the top thread end and pull the thread to the underside of the fabric.

   At the end of each color block, the thread is tied off and the needle thread is cut.

8. When the embroidery is completed, your machine cuts the top thread and bobbin thread and stops. The needle and presser foot raise automatically for easy removal of the hoop.

   A pop-up message and sound informs you that your embroidery is finished. Touch OK to clear your design from the screen and return to Embroidery Edit. Touch Cancel (X) to keep the design loaded and stay in Embroidery Stitch-Out.

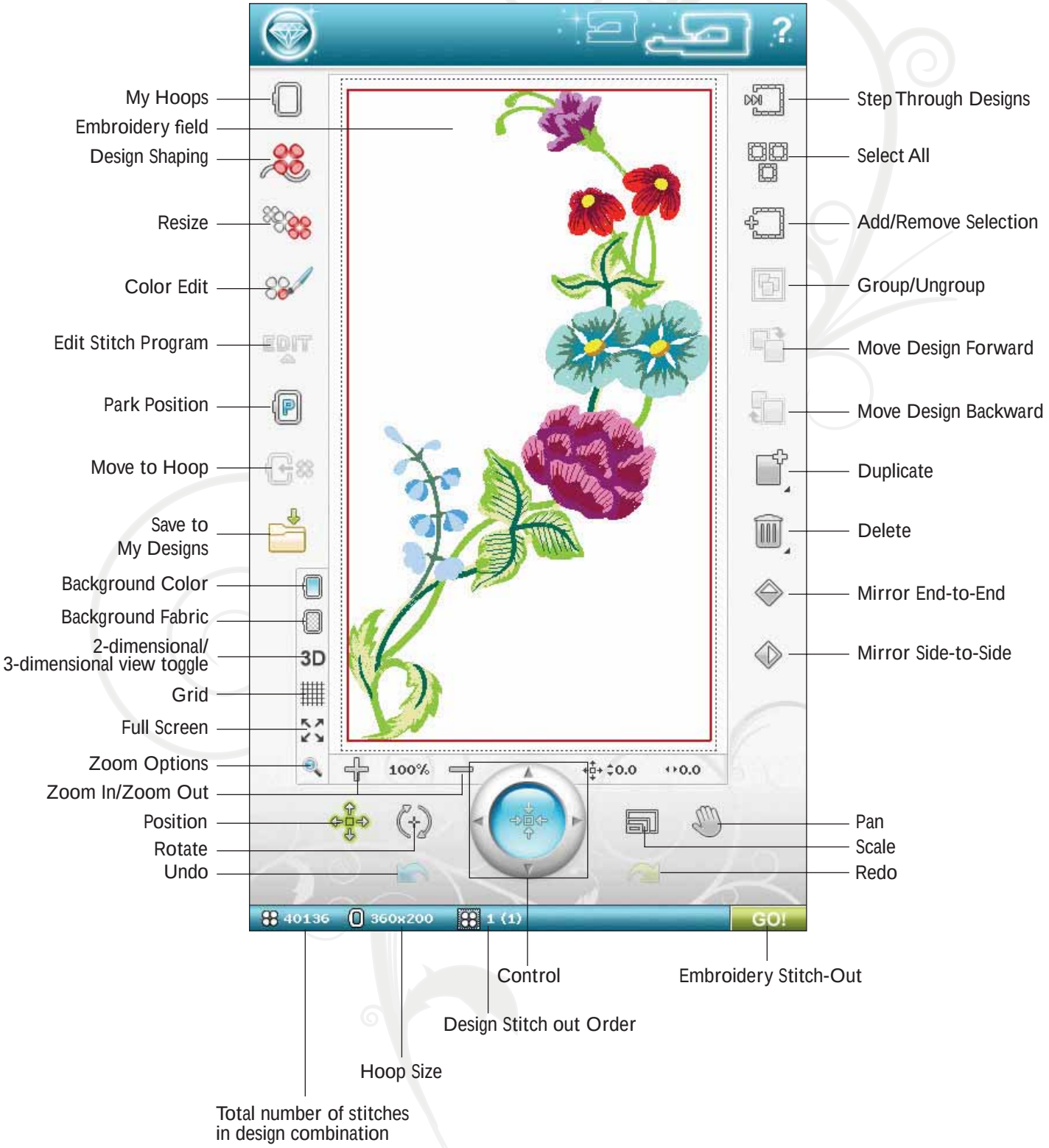


7 Embroidery Edit

EMBROIDERY EDIT

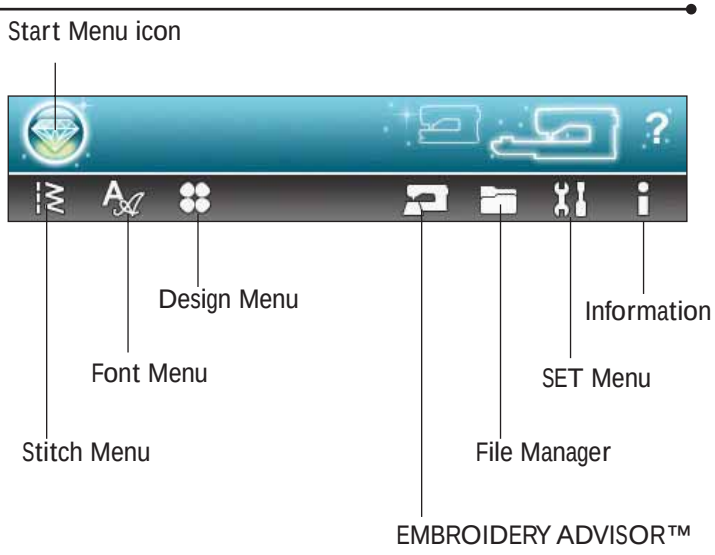
When you touch the Sewing/Embroidery Mode on the toolbar to activate Embroidery Mode or turn the machine on with the embroidery unit attached, Embroidery Edit will be opened. In Embroidery Edit you can adjust, combine, save and delete designs. You do not need to have the embroidery unit connected to your machine to edit your design(s). The loaded design(s) are shown in the Embroidery field.

EMBROIDERY EDIT - OVERVIEW OF ICONS



MAIN FUNCTIONS IN THE EXTENDED EMBROIDERY EDIT TOOLBAR

Touch the Start Menu icon to open the Extended toolbar. Press the function you want to activate.



LOAD A STITCH

To load a stitch, touch the Stitch Menu icon on the Extended toolbar. Select a menu and the Program window will open. Touch your desired stitch/stitch program and touch OK to load to Embroidery Edit. Read more about how to make a stitch program in chapter 5.

LOAD A BUTTONHOLE

Buttonholes can be embroidered in a hoop. Touch the Stitch Menu icon on the Extended toolbar and select menu B. Select desired buttonhole in the window that opens, and set the buttonhole stitch length, width and density. Touch OK to load the buttonhole to the embroidery area.

LOAD A FONT

Text can be created both with embroidery fonts and stitch fonts. Load a font by selecting the Font Menu from the extended toolbar and touch your desired font on the screen.

Embroidery fonts will be loaded into the Embroidery Font Edit window.

Stitch fonts will be loaded to Program. The text created will then be loaded into Embroidery Edit.

LOAD A DESIGN

To load a design, touch the Start Menu icon to automatically open the dropdown list. Select designs from the dropdown list. Your personal designs will be shown in the menu. To load a design, touch it on the screen and it will be loaded into Embroidery Edit.

Note: You can also load designs, fonts and stitches from File Manager.

EXCLUSIVE EMBROIDERY ADVISOR™

The Exclusive EMBROIDERY ADVISOR™ feature recommends the best needle, stabilizer and thread recommendation for your fabric. Select the fabric you want to embroider on and follow the recommendations. Touch OK to close the EMBROIDERY ADVISOR™ feature.

FILE MANAGER

The File Manager helps you add, move, remove and copy designs, fonts and stitch files in an easy way. Touch the File Manager icon to open File Manager to save to the machine memory or external devices connected to the USB-ports, such as your computer or the HUSQVARNA VIKING® USB embroidery stick. Select the place you want to save your design. Touch a folder to select it and Touch & Hold it to open it. Read more about File Manager in chapter 9.

SET MENU

In the SET Menu, you can override automatic settings and make manual adjustments to the Sewing Settings, Machine Settings, Sound Settings, and Screen and Light Settings.

Touch the icons to activate a function or open a list of choices. Read more about the SET Menu in chapter 3.

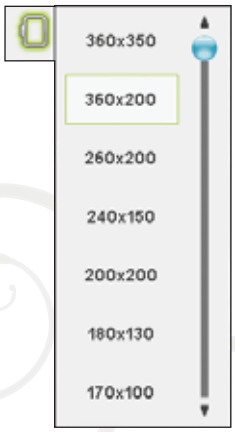
INFORMATION MENU

Use the Information menu to easily get Help topics and information. The Info menu is a built-in, abridged version of the User's Guide. Read more about the Information menu on page 3:13.

MY HOOPS

To select the correct hoop size, touch the My Hoops icon. A pop-up will appear with the hoop choices, including hoops that are available to purchase from your authorized HUSQVARNA VIKING® dealer.

After selecting your hoop size, the pop-up will close automatically.

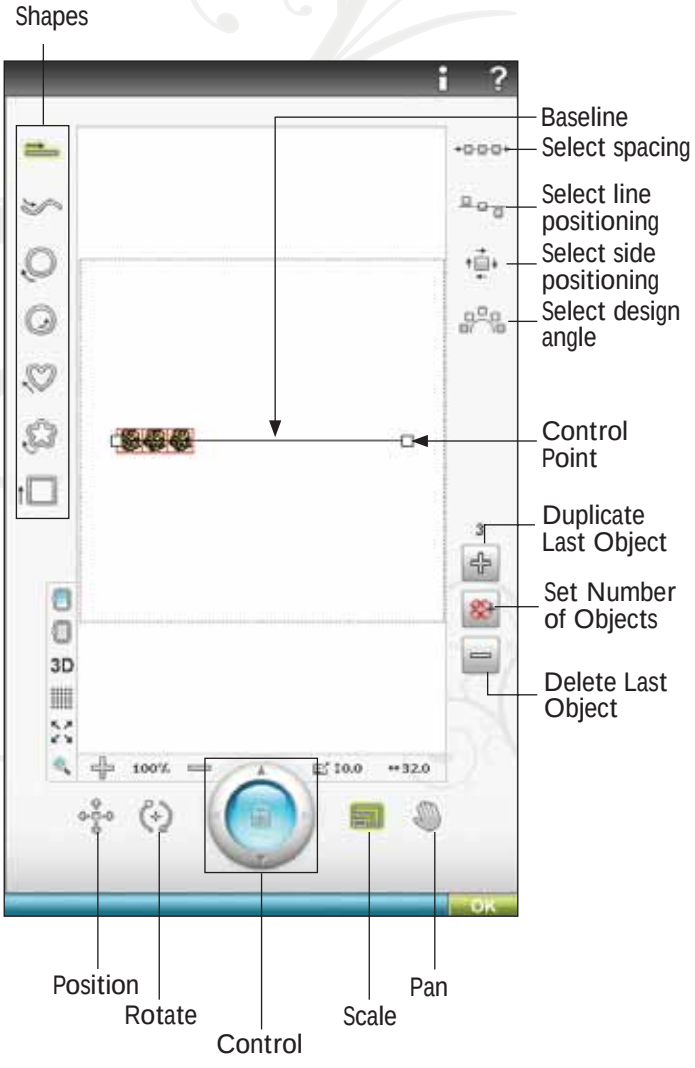


DESIGN SHAPING

Design Shaping is a unique way to take your creativity to another level. Use your beautiful stitch programs or embroidery designs to form one of several shapes.

Design Shaping

- Select the designs or stitches on screen that you want to shape. Touch the Design Shaping icon found in Embroidery Edit.
- Select one of the shapes on the left hand side of the Design Shaping window. The designs/stitches/stitch programs you previously selected will be placed on the baseline in the order that they were loaded into Embroidery Edit. The designs will follow the line in the direction indicated by a small arrow by the shapes.
- You can touch and drag the control points of the shape on the screen to increase or decrease the size of the shape. If you position or rotate the shape, it will affect the whole shape. The Set Number of Objects in the shape can be adjusted by using the Duplicate/Delete Last Object.



Select spacing

If you touch the Select spacing icon a pop-up will appear allowing you to choose how to spread out your designs along the baseline: Evenly, Left Justification or Right Justification. If you choose Left Justification the objects will begin loading to the left. If you touch Right Justification, the objects will begin loading to the right. The spacing between the objects can then be increased or decreased by using the +/- slider. The actual spacing is shown in the center of the Spacing control. By default, the objects are placed evenly along the baseline with an equal distance between all objects.

Note: The Spacing control will only be visible when Left or Right Justification is selected.

Note: If there are objects that do not fit in the shape when you have selected Left or Right Justification, the baseline will turn red. The objects that don't fit will be placed at the end of the shape. Enlarge the shape, adjust the spacing, or delete some objects until the objects fit the shape. The baseline will change to a black color again.

Select line positioning

Touch the select line positioning icon to open a pop-up. You can choose to place the objects on the top of the baseline, or on the baseline or under the baseline. The selected positioning will affect all objects on the shape.

Select side positioning

Select which side of the objects that shall be positioned on the baseline. Touch the select side positioning icon to open a pop-up. You can choose to place the bottom, top, right or left side of the objects along the baseline. The selected setting will affect all objects on the actual shape.

Select design angle

Decide how to align the objects on the baseline. Touch the select design angle icon to toggle between objects all lined vertically or to keep the current angle along the baseline. The setting affects all objects on the shape.

Duplicate/Delete Last Object

If you want to add a copy of the last object, use the Duplicate Last Object icon. The last object in the shape will be duplicated and the copy will be added after the last object on the baseline.

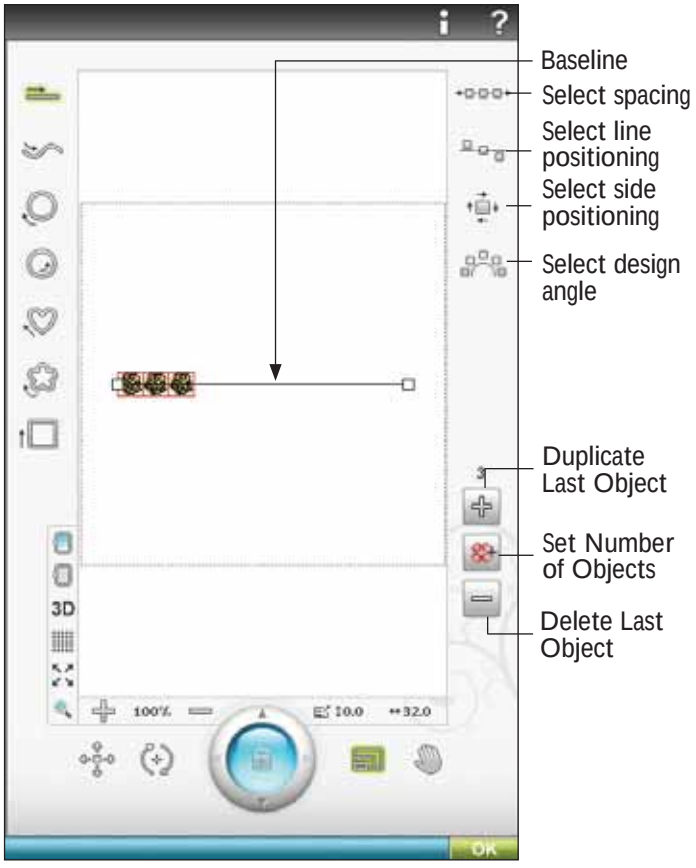
If you want to delete the last object in the shape, touch the Delete Last Object icon. Only the last object in the group will be deleted.

Note: If several designs are grouped before opening Design Shaping, the entire group will be duplicated or deleted. Duplicate and Delete icons are not visible when shaping an embroidery text.

Set Number of Objects

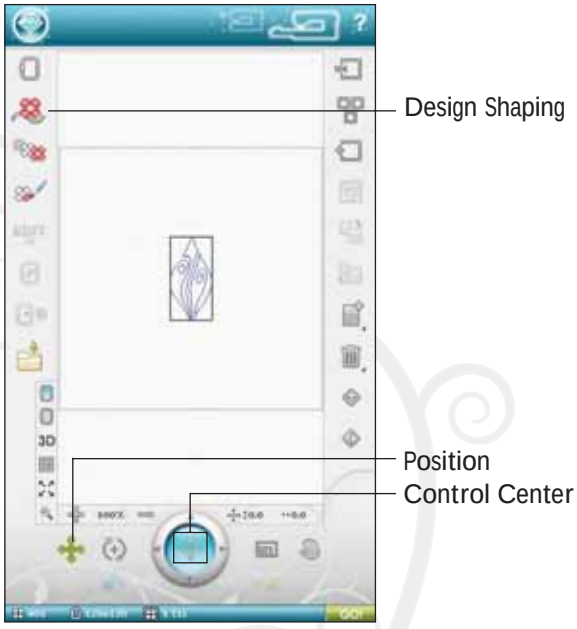
If you touch the Set Number of Objects icon, a pop-up will appear allowing you to enter the total number of objects you wish to have on your shape.

Note: It is the last added object that will be duplicated when entering a wished number of objects.

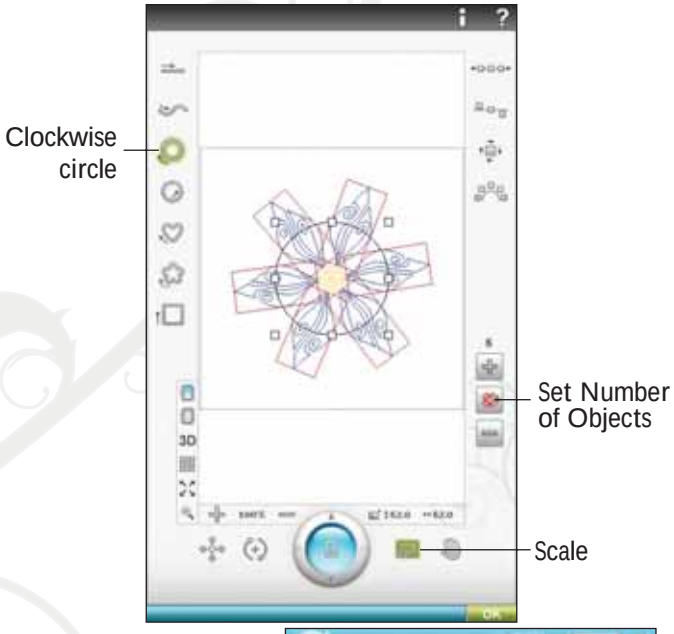


Design Shaping - example

1. In Embroidery Edit, open the Design Menu and select design DL_070.vp3 to load to Embroidery Edit.
2. Open My Hoops and select 120 x 120 hoop.
3. Open the Design Menu again and load DL_072.vp3.
4. Select, then center DL_072.vp3, by touching the Control Center icon when the function Position is active.
5. Select DL_070.vp3 and Open Design Shaping.



6. Select the clockwise circle.

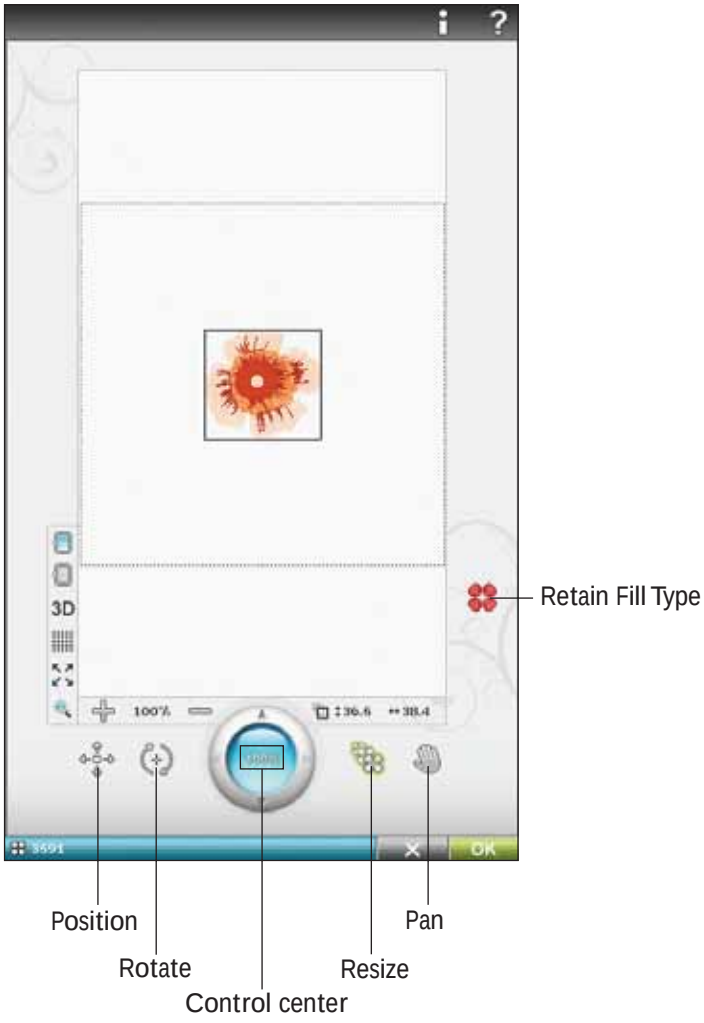


7. Select the touch function Scale. Either touch and drag on the screen, or use the arrows in the Control to decrease the size to 52x52mm. The size is indicated just above the Control.
8. Touch the Set Number of Objects icon and enter six copies in the pop-up.
9. Close Design Shaping by touch OK in the lower right corner. Switch to Embroidery Stitch-Out by touching the GO! icon. Touch Start/Stop to embroider.

RESIZE

Resize can reduce an embroidery design up to five times smaller than the original design or increase it up to eight times larger than the original design. The machine recalculates the number of stitches in the design so the original stitch density remains.

Note: To reduce or increase the design less than 20%, use Scale function. The Scale function does not change the stitch count.



Resize adjustments

Select the design you want to resize. Open the Resize window.

Adjust the design size by touching and dragging on the screen or by using the Control. The size of the design is shown in millimeters above the Control. To return to the original size, touch the Control center icon.

Adjust the placement of the design in the hoop using Position and Rotate.

Retain Fill Type

All fill areas in an embroidery design are made in a specific type to get the best effect. When enlarging or reducing a design, the stitches in the fill area will be affected.

There are two ways to handle the fill type and style in the design to be resized.

1. The default setting will not retain fill type. This is the fastest way to resize a design. However, the fill areas in the design may look different than the original.
2. When Retain Fill Type is selected, it will take longer to resize but the process will retain the fill types and styles within the design areas. If greatly enlarging a design, Retain Fill Type is recommended for best results.

To start resizing

When you are satisfied with the design size and position, touch OK to close the window and start resizing. An hourglass on the screen shows that it is working. When finished, the resize window will close.

Touch Cancel to return to Embroidery Edit without resizing.

Note: Stitches and stitch programs cannot be resized.

IMPORTANT RESIZE INFORMATION

Since designs are digitized for a specific design size, it is important to consider the following information about Resize. Always embroider a test sample of your resized design before embroidering on a project.

- Resize is always proportional. If you reduce a design 30%, it will be 30% smaller in both length and width. If the design is very detailed, some of it may be lost or distorted, and/or it can be very dense. Some designs should not be reduced more than 25% if they have too many details.
- Designs can be increased larger than the hoop, so be sure that the design fits in the hoop. If the design is larger than hoop size, the machine will not be able to embroider it.
- If you are enlarging a design too much, you may see stitch irregularities. Press the Control Center to return to 100% and resize to a smaller percentage for a better result. Depending on the memory left in the machine, you may find some designs too complex to resize in the machine. Please use 5D™ Embroidery Software to resize very large and complex designs. It is available to purchase from your local authorized dealer.
- Always start with the original design when resizing. This is to ensure the best possible stitch quality. If a resized design is saved, and then resized again, it can cause stitch irregularities. For the best resize result, always start with a design in original size.
- Depending on how much you resize a design and how many stitches it contains, the resize process time will vary. Resizing a very large or complex design may take a few minutes. Once you touch OK, you cannot cancel. You will need to wait for the process to be finished.
- It does not matter in which order you select functions to adjust the size, rotation, mirroring etc. When you touch OK, your machine always resizes first and then adds the rotation, mirroring etc.
- It is recommended that you scale instead of resize to change a design less than 20% and also for designs digitized with single or triple stitches, such as cross stitch embroideries. In this case, you do not want to add stitches to the design, you only want to make the design larger or smaller by making each original stitch larger or smaller.

COLOR EDIT

Touch Color Edit icon to enter the Color Edit Screen.

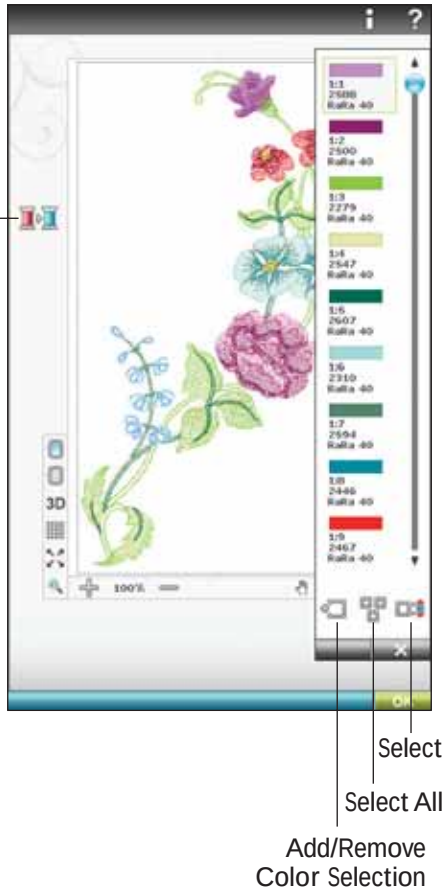
Color Edit

Thread Color Change

In Thread Color Change you can edit the colors in your design. Each color block is described in the Color Block list on the right hand side of the screen.

Example: 1:2, thread number 2500, RaRa 40, 1:2 means the second thread color in the first loaded design is Robison-Anton 40 weight.

In the Color Block List, touch the color block that you want to change. Touch the Thread Color Change icon to open a window with 64 different color choices. Touch your new color to select it and touch OK. The window will close and your new color will be applied in the Color Block List and to the design.



Select more than one color block

To change more than one color block at a time, touch the Add/Remove Color Selection icon, then touch the color blocks you want to select/deselect.

Touch the Select All icon to make changes to all color blocks at one time. Add/Remove Color Selection is automatically activated. To deselect a color block, just touch it in the list. Touch Add/Remove Color Selection to deactivate the function and deselect all color blocks.

Use Select Equal to change all the same color blocks at one time. Touch the color block you want to change, then touch Select Equal to select all identical color blocks in the color block list. Add/Remove Color Selection is automatically activated. If two or more different color blocks are selected, Select Equal will select all identical color blocks of all selected colors.

On-screen display of selected and non-selected color blocks

Selected color blocks are shown in 2-dimensional or 3-dimensional view. Color blocks that are not selected are shown as colored dots on the screen, making it easy to see which color areas in the design will be changed.

EDIT STITCH PROGRAM

If you want to edit a stitch program that you have created and loaded to Embroidery Edit, touch the Edit Stitch Program icon. The Program window will open to let you make adjustments. You can insert new stitches or delete stitches. If you have programmed stitches in Embroidery Mode, you can save the stitches as a part of a design, and they can only be stitched in embroidery mode.

To save a stitch program in Embroidery Mode

Touch the Start Menu, touch the Stitch Menu. Program your stitch and touch OK in the lower right corner of the screen. You will now load your text to Embroidery Edit. Touch the Save to My Designs icon to save the stitch program in My Designs. A stitch program made in Embroidery Mode will not be able to open in the sewing mode.

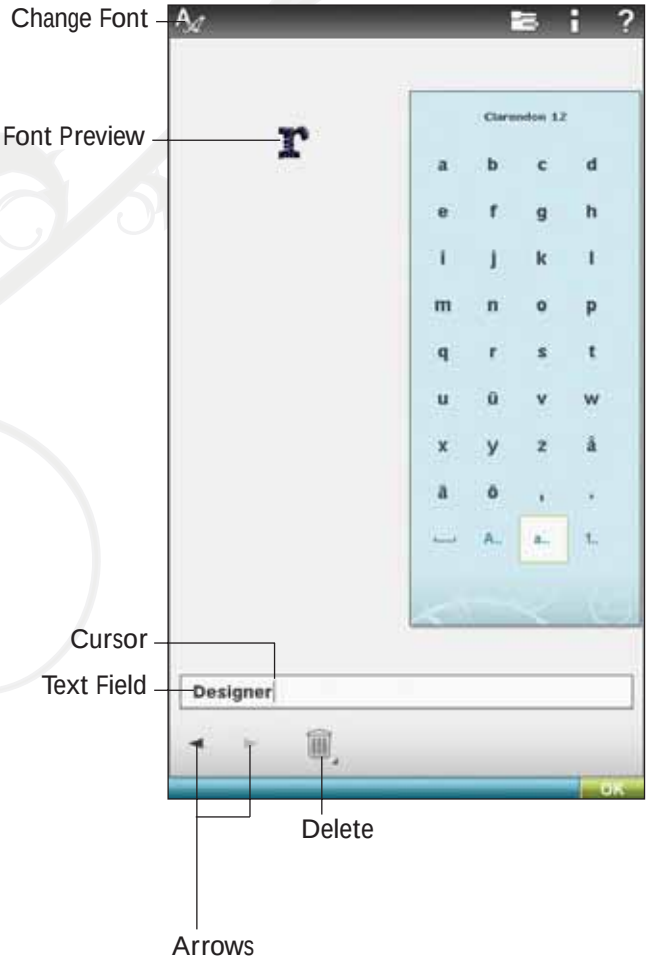
Read more about how to program a stitch in chapter 5.

PROGRAM EMBROIDERY FONTS

To open an embroidery font, go to Embroidery Edit and touch the Start menu. Choose the Font menu on the Extended Toolbar and select an embroidery font from the list. The Embroidery fonts are below the stitch fonts.

When selecting an embroidery font in Embroidery fonts list, the Program Embroidery Font window will open automatically. You can also open this window if you want to adjust an existing text already in Embroidery Edit. In that case, select the text and touch the Edit Stitch icon.

Note: If the text is created of stitch fonts, the Program window will open instead.



To use the Editor

Use the stylus and touch the letters you want to add to the text. The text is shown in the text field with the cursor at the active letter. Use the arrows to step forward and backward.

You can change the font and the size of the entire text by touching the Change Font icon. Select a different font/font size and the entire text you have written will change to the new font/font size. A preview of the selected font is shown in the Font Preview area.

Add a letter into a text

Use the arrows to move the cursor to where you want to add a letter. Touch the letter and it will be inserted at the cursor position.

Delete a letter

To delete one letter, place the cursor after the letter to be deleted. Touch the Delete icon. If you want to delete all the text you have written, Touch & Hold on the Delete icon. A pop-up message will ask you to confirm the deletion.

Park Position

Touch the Park Position icon to move the embroidery arm to Park Position for storing the embroidery unit.

The hoop must be removed before moving to park position to prevent any damage.

Move to Hoop

Touch Move to Hoop to move any design that is outside the hoop area into the hoop area. The design will be placed at the outer most edge of the hoop.

Save to My Designs

Touch the Save to My Designs icon to save your edited design or design combination. In the window that opens, select where you want to save the design. Select My Designs, My Files or an external device. Designs saved in My Designs are available through the Designs menu on the Extended Toolbar.

HOOP/DESIGN OPTIONS BAR

Background Color

Touch Background Color to change the active background color. A window will appear where you can select from 64 different colors.

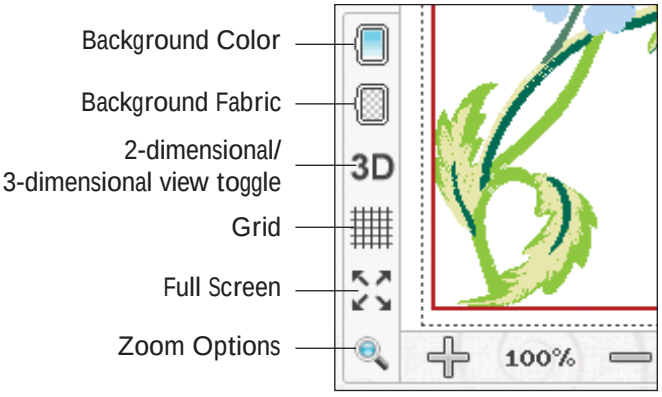
Background Fabric

Touch Background Fabric to activate/deactivate the image of background fabric on the Ultimate Interactive Screen.

2-dimensional/3-dimensional view toggle

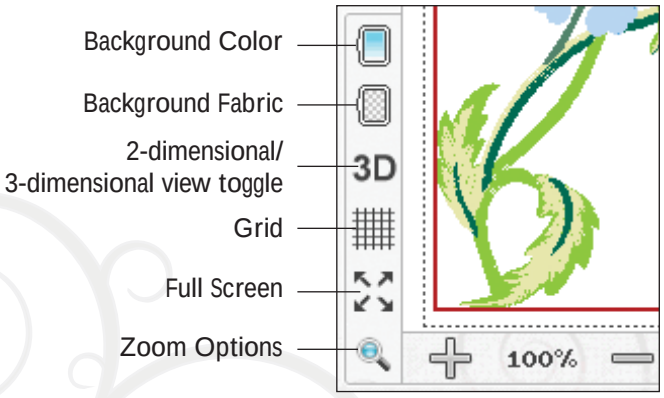
In 2-dimensional view, the designs load faster on the screen and it is easier to see the color blocks in the design. 3-dimensional view gives a more realistic view of the designs, with added shadows and depth.

Touch the "3D" icon to change to 3-dimensional view. The icon becomes selected. Touch again to deselect and return to 2-dimensional view.



Grid

Touch the Grid icon to activate/deactivate a grid on the embroidery field. The grid is used as a guide when combining or placing designs. The distance between the grid lines equals a maximum of 20 mm. As you zoom in on the embroidery field, the distance between these lines reduces to 10mm and 5mm, indicated with lighter lines.

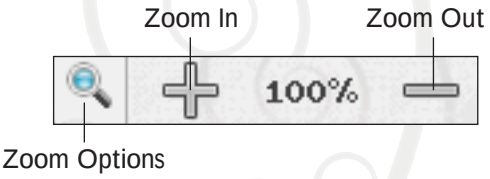


Full Screen

To see your design as large as possible, use the Full Screen function.The embroidery will fill the entire screen. To close, touch anywhere on the screen.

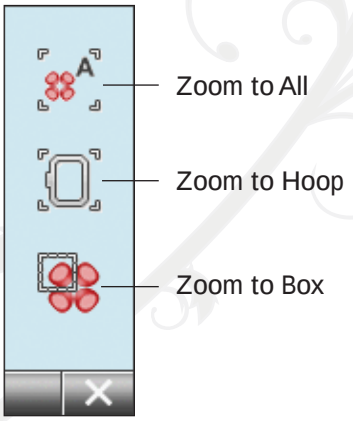
ZOOM OPTIONS

Zoom in or out of the embroidery field. Use Zoom In (+) to get a close-up of an area within the embroidery design. Use (-) to Zoom Out.



When you touch the zoom options icon a popup will appear displaying the different zoom options.

Zoom to All will show all the design(s) in the embroidery combination. Zoom to Hoop will adjust the embroidery field to fit the selected hoop.



Touch and drag your stylus in the embroidery field on the screen to create a box. The screen zooms to show that specific area.

Note: As you Zoom In your design gets very large. To locate a specific part of your design touch Pan. Touch and drag or use the control arrows to find the part you wish to work with.

UNDO

Touch the arrow pointing left to undo your latest design adjustment. Touch repeatedly to step back through your adjustments.

Note: Not all adjustments can be undone. The arrows will be greyed out if undo is not possible.

REDO

Redo is activated when Undo is touched, so you can step forward again through your adjustments.

TOUCH FUNCTIONS

A selected design has a red box around it. To select a design touch it on the screen. You can use your stylus to make adjustments directly on screen by touching and dragging in the embroidery field. You can Pan, Position, Rotate and Scale, depending on which touch function is active. You can also use the arrows in the Control to fine tune.

Position

When Position is active, you can move the selected design(s) anywhere in the embroidery field. The numbers next to the Control show, in millimeters, the designs current horizontal and vertical position from the center of the hoop.

Touch the Control Center icon and the design(s) will be moved to the center of the hoop.

Rotate

When Rotate is active, the selected design(s) will be rotated around the center point of the selected design(s).

Use the arrows in the Control to rotate the design(s) in one degree increments. Each touch of the Control Center icon will rotate the design(s) 90 degrees clockwise.

Next to the Control you can see the angle in degrees that the design(s) has rotated from its original position.

Scale

When Scale is active, you can increase or decrease the selected design or a group of designs by 20%. By default, the proportions are locked. This is indicated with a closed padlock in the Control Center icon. To unlock, just touch the padlock. Height and width can now be changed individually.

If you move the stylus on the screen towards the center of the selected design(s), the size will decrease. If you move the stylus from the center of the selected design(s), the size will increase. Use the Control to fine tune.

Note: To increase or decrease a design more than 20%, use the Resize function.

Pan

When Pan is active, you can pan the embroidery field in the zoomed view. Touch the Control Center icon to center the view over the hoop.

ADJUSTMENTS

Mirror Side-to-Side and End-to-End

To mirror a design horizontally, touch the Mirror Side-to-Side icon. To mirror vertically, touch the Mirror End-to-End icon.

Delete

When you touch the Delete icon, the selected design(s) will be deleted from the embroidery field. If more than one design is selected, a pop-up message will ask you to confirm the deletion.

Touch & Hold the Delete icon to delete all the designs in the embroidery field. A pop-up message to confirm the delete all designs will appear.

Duplicate

Touch the Duplicate icon to make a copy of the selected design(s).

If you want more than one copy, Touch & Hold the icon and a pop-up window will open where you can enter the desired number of copies.

See page 7:15-7:17 for information about selecting and deselecting designs.

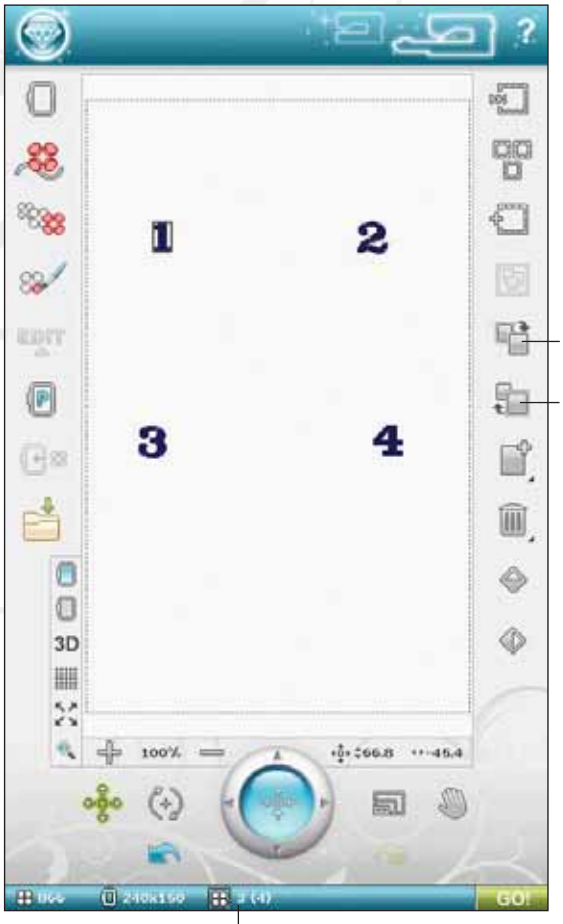
DESIGN STITCH OUT ORDER

Designs are stitched out in the order they are loaded to Embroidery edit. When working with several designs at a time it can be useful to know in which order they will be stitched out. Select a design by touching it to see which stitch out number it has. 3 (5) for example means that the selected design is the third out of five designs to be stitched out.

Note: When you touch Move Design Backward/ Design Forward icons the Design Stitch out Order will change.

MOVE DESIGN BACKWARD/ FORWARD

To change the Design Stitch out Order without having to start over and load the designs again in the desired order, you can use the Move Design Backward/Forward icons. Select the design you wish to move backward/forward in the design order. Touch the Move Design Backward/ Forward icons to move the selected design in the stitch out order.



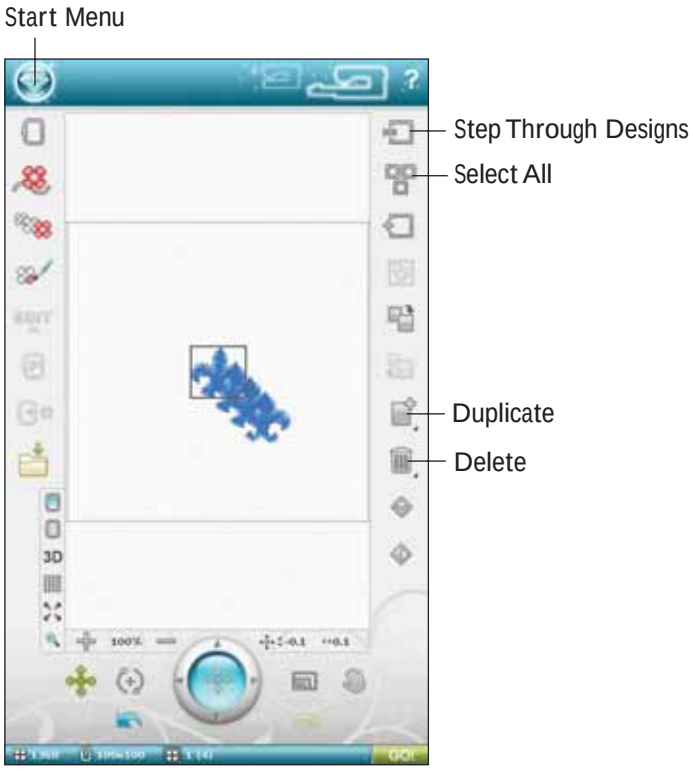
HOW TO SELECT DESIGNS

When loading designs into Embroidery Edit, the last design loaded is selected by default.

Select one design

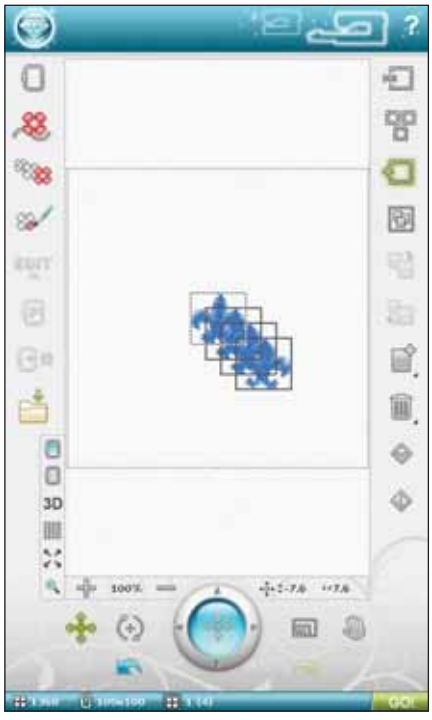
To select one design you can either touch the design on the screen or touch the Step Through Designs icon. The Step Through Designs icon allows you to select one of the designs on your screen if you wish to alter it in some way. Every time you touch the Step Through Designs icon, you will select the next design in the order they will be embroidered.

1. In Embroidery Edit, touch Start on the toolbar to open the Extended toolbar. The Design Menu will open.
2. Select a design from the dropdown list by touching it.
3. Touch the Duplicate icon three times. The last design will have a red box around it which means that it is selected.
4. If you want to select the first design you inserted, touch the Step Through Designs icon. Every time you touch that icon, you will move to the next design in the order they have been loaded.
5. Once you have selected the design you want, you can delete, duplicate, position, scale, mirror, resize, and/or rotate it. Only the design that is selected that will be affected by your changes.



Select All

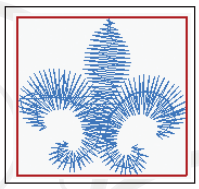
6. If you want to select all designs, simply touch the Select All icon. All the designs on your screen will be selected. You can now move, delete, duplicate, position, scale, mirror, resize, rotate and/or turn them into a design shape.



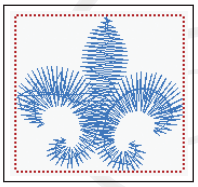
Selection Modes

There are three different ways a design can be chosen on the screen. This gives you the opportunity to select a subset of the loaded designs and apply changes only to those designs.

1. Selected design (1) - The design is marked with a solid red line. You can make changes to the design(s). You can scale, rotate, make the design(s) into a shape, resize and edit the selected design.
2. Marked and Selected - The design is marked with a dotted red line. You are able to make changes to the marked and selected design. You can remove this design from the selected designs by pressing the Add/Remove Selection icon.



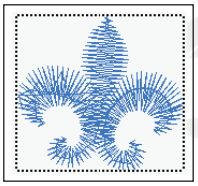
Selected Design(s) have a red box around them.



Marked and Selected Design(s) have a red dotted box around them.

3. Marked design - When two or more designs are on your screen, you are able to mark a design. The design is marked by a dotted black line.

   It will not be affected by changes such as scale and rotation. When you select the Add/Remove Selections icon, the black dotted box turns red. Your design is now marked and selected.



A black dotted box around a design means it is marked and not active.

ADVANCED SELECTION

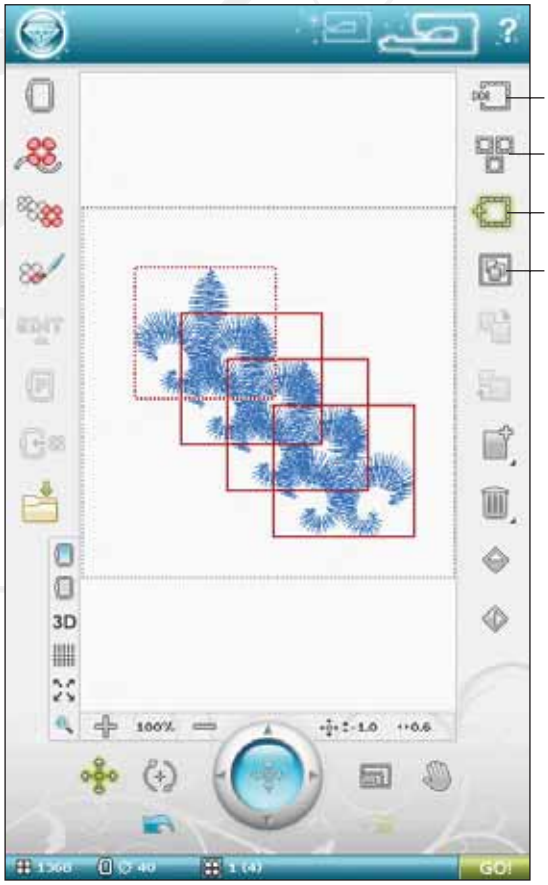
Add/Remove Selection

If you have loaded several designs and want to change only a few of them, you can use the Add/Remove Selection function. Touch the Add/Remove Selection icon to activate the function. Mark the designs by touching them to add them to the selection.

You can also use this function after the Select All function to remove one or several designs from a group. Then mark the designs you want to remove and click on Add/Remove Selection to remove them from the selection.

Group/Ungroup

If you have selected two or more designs and want to connect them to be adjusted as one design, touch the Group/Ungroup icon. A red square will surround all designs in that group. To ungroup, touch the Group/Ungroup icon again. They will once again become individual designs.



SELECT DESIGNS EXERCISE

In this exercise you will learn how to select two out of four designs to be able to make changes to them.

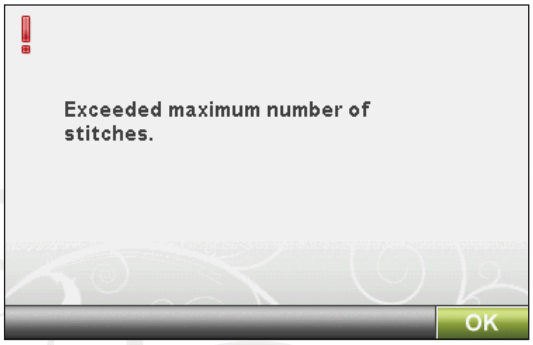
1. Go to your Font Menu on the Extended toolbar. Touch Kalligraphia 30. The Font Edit window will open.
2. Go to your number menu and select 1, 2, 3 and 4. Touch OK to go back to Embroidery Edit.
3. The Group/Ungroup icon is now active. Touch the Group/Ungroup icon to ungroup the designs. Design 2, 3, and 4 have a red solid frame around them which tells you that they are seleted. Design 1 has a red dotted box which means that the design is marked and selected.
4. With your stylus, touch outside the designs so that you do not mark any particular design. Touch outside the design again to deselect all. None of the designs are now selected.

5. We now want to select designs 2 and 4. With your stylus, touch design 2 or use the Step Through Designs icon to select it. Touch the Add/Remove selection icon. The design will become marked and selected, which is indicated by the red dotted box.
6. With your stylus, touch the design 4 to mark that design. It will have a black dotted box around it. Touch it again or press Add/Remove Selection to make 4 marked and not active. You can now move, mirror, shape, resize, scale, rotate or delete designs 2 and 4.

EMBROIDERY EDIT POP-UP MESSAGES

Exceeded maximum number of stitches

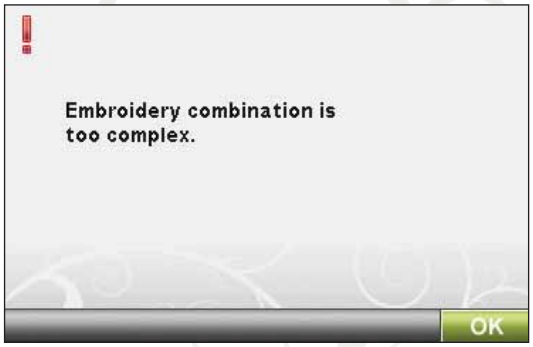
The design combination you are trying to make contains too many stitches. Your design combination can have a maximum of approximately 500,000 stitches.



Embroidery combination is too complex

This pop-up message appears for one of the following reasons:

- The design combination contains too many color blocks.
- There are too many designs in the combination.
- One or more designs have been grouped and re-grouped too many times.

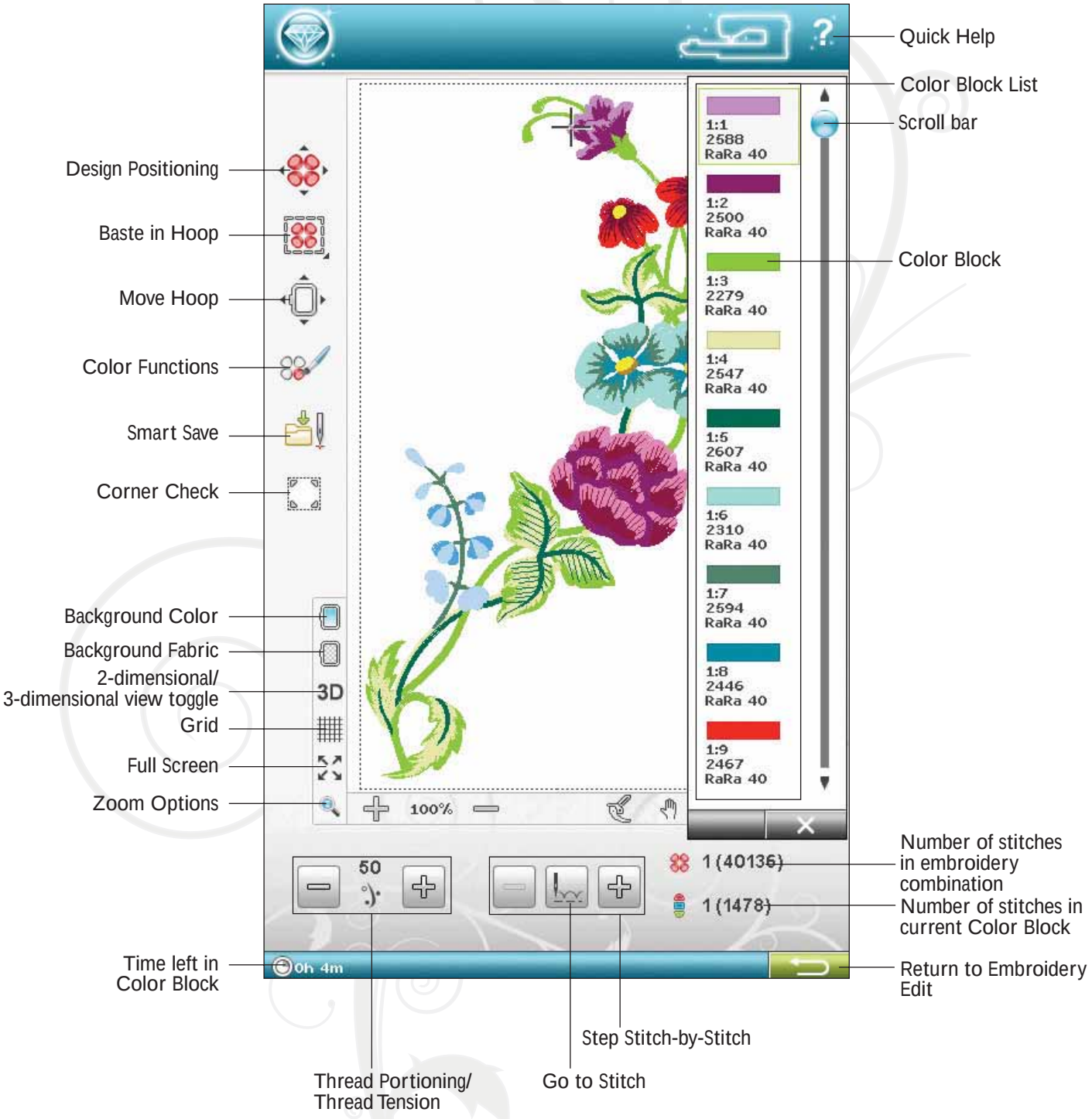


8 Embroidery Stitch-Out

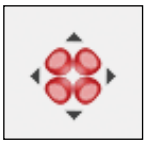
TO ENTER EMBROIDERY STITCH-OUT

To embroider your design(s), enter Embroidery Stitch-Out by touching the GO icon in the lower right corner of the Embroidery Edit window. The embroidery unit must be connected and the correct hoop attached when the machine enters Embroidery Stitch-Out.

EMBROIDERY STITCH-OUT - OVERVIEW OF ICONS



DESIGN POSITIONING

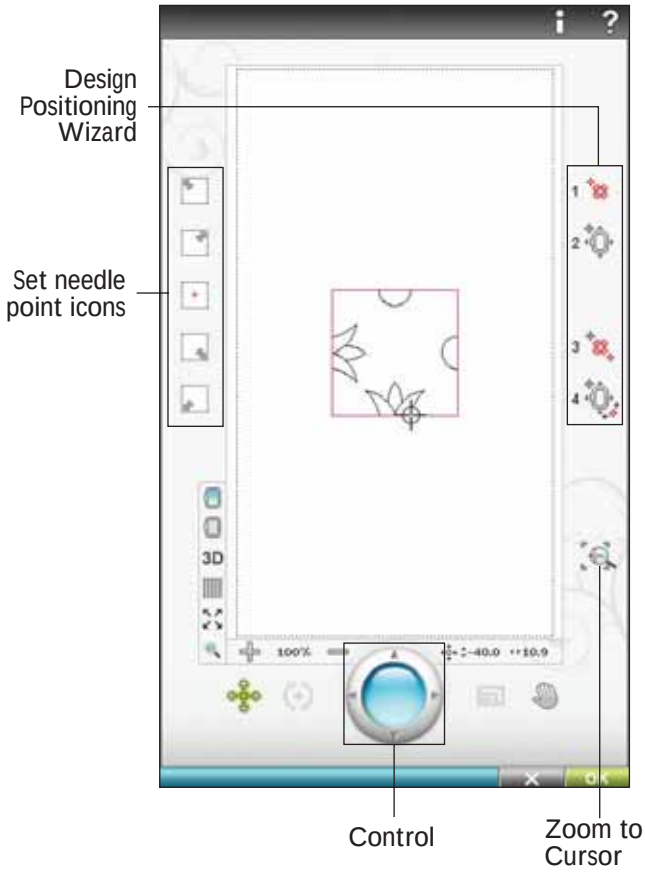


Design Positioning

Touch the Design Positioning icon to open the Design Positioning screen. Design Positioning allows you to place a design on an exact location on your fabric. It is also used when you want to embroider a design next to a previously embroidered design.

Note: If you just want to move your embroidery in Embroidery Stitch-Out, open the Design Positioning window and move your design using the Control or your stylus.

Use Zoom and Pan to be sure that you are placing the design exactly where you want it. Fine tune with the arrows in the Control.



Zoom to Cursor

Maximizes the zoom and pans the embroidery area so the cursor position is centered on the screen.

Set needle point

Move the needle point to any of the selected corners or the center of the designs. Set needle point can be used to trace the design field by touching each of the four corner icons. You can find the center of the design by touching the Move to Center icon.

HOW TO USE DESIGN POSITIONING

Design positioning is used to position a design on an exact spot on the fabric. You can use it to align a design to a pattern on the fabric or to a previously embroidered design.

DESIGN POSITIONING WIZARD

When touching one of the Design Positioning icons, a text will appear above your design, explaining each step.

1. To select a locking point on screen

Touch number 1 to select a locking point. Place the red cursor where you would like the locking point to be in your embroidery.

2. Move locked point on fabric

Touch number 2. The red cursor will be locked on the screen. It will change color from red to grey with a ring around the center of the locking point. Now you can place the design exactly where you want it on the fabric by using the stylus or the Control. Watch the hoop as it moves when you use the arrows to get the design placed exactly where you want it. The position of the needle will show where the locking point will be placed on the fabric. Use the Control to fine tune.

Note: If you are happy with the placement of your design, touch OK in the bottom right corner. If you also need to adjust the angle of the design, continue with step 3.

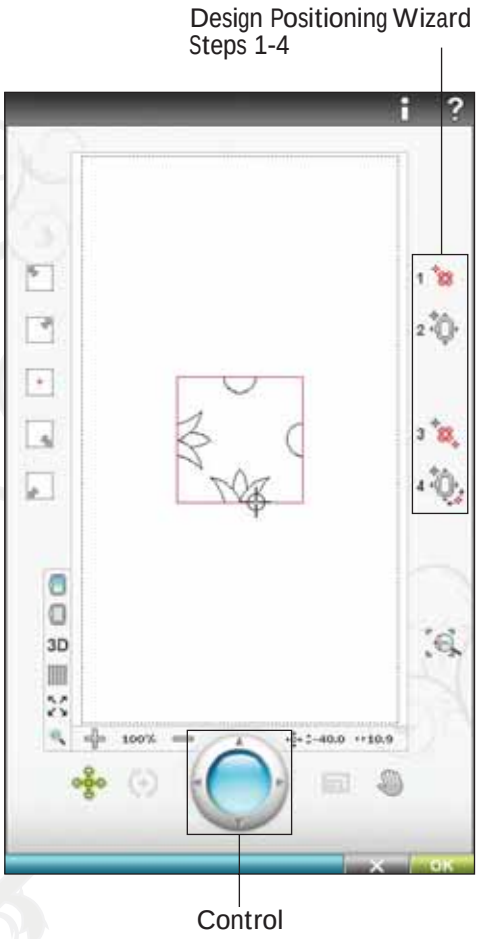
3. Set matching point on screen

Touch number 3 to activate the matching point. You can set a second position within the design to make sure your design is lined up properly and make further adjustments if necessary.

Watch the cursor on the screen to select a matching point. Place the red cursor where you would like the matching point to be in your embroidery. The hoop will move, so that the needle indicates the matching point. Use the Control to fine tune.

4. Rotate design on fabric

Touch number 4. The rotate function is automatically selected. Use the stylus or Control to rotate the design around the locking point. Look at your fabric and rotate the design until the needle is exactly where you want the matching point. Touch OK.



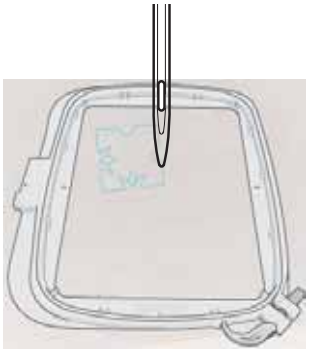
DESIGN POSITIONING EXERCISE

When adding one design to a previously embroidered design, or when matching a design to a patterned fabric, Design Positioning is very useful.

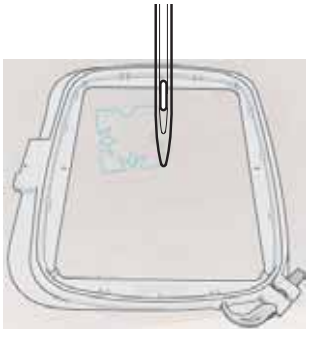
1. Select Design DL_077.vp3 and embroider one in the upper left corner of the hoop. Touch number 1. Use the stylus, Control Arrows or touch Set needle point icon to move the cursor to the upper left corner of the design. Touch Zoom to Cursor to maximize the zoom so that you will be able to place the cursor accurately on the design. Select Pan to move the design on the screen without moving the cursor. Reselect Position when you want to move the cursor.

2. Touch number 2. The cursor is now locked. Move the locked point to the upper left corner of the embroidered design. Use the Position function and the Control to move the cursor. Watch the hoop move until the needle is exactly above the point where you want the embroideries to connect. Once you are satisfied, touch OK to close the Design Positioning window and start embroidering.

3. If you want to line up the design with the previously embroidered design, you can select a second matching point. Touch number 3 and move the red cursor to a point where you want the second matching point to be. Watch the screen and zoom in as much as you can so that you will be able to place the cursor accurately.



4. Touch number 4 to rotate the design so that it lines up with the previously embroidered design on your fabric. Check that the needle is in the exact position on the fabric.
5. Touch OK to close Design Positioning and start embroidering.

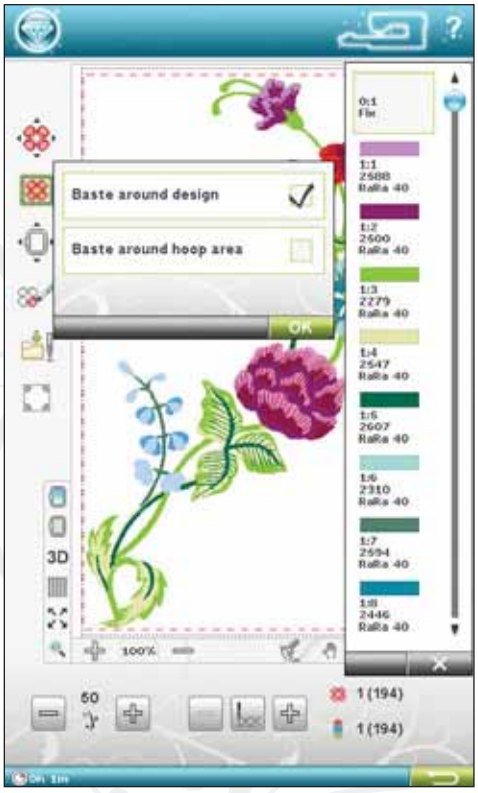


BASTE IN HOOP

Basting enables you to secure your fabric to a hooped stabilizer. It is especially useful when the fabric to be embroidered cannot be hooped. Basting provides support for stretchy fabrics.

Touch the Baste in Hoop icon to activate basting. Touch and hold to open the embroidery basting window.

Note: Touch the FIX button on your machine to activate or deactivate the selected basting techniques.



Baste around design

Select Baste around design to add a basting stitch around the design, outlining the area where the design will be placed on the fabric.

Baste around hoop area

Select Baste around hoop area to add a basting stitch around the inside edge of the hoop.

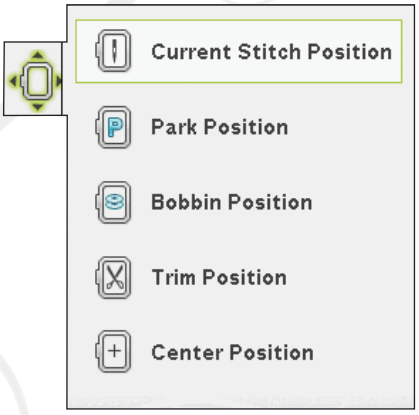
You can select both basting options to add additional hold for certain fabrics and techniques.

Note: The baste stitches will be added in the color block list, with the possibility to step stitch by stitch and step in and out of the baste color block/s. The baste color block/s will disappear from the color block list when stitched out.

Note: Basting can only be enabled when positioned at the first stitch in the embroidery.

MOVE HOOP

Use the Move Hoop functions to move the embroidery arm to different positions.



Current Stitch Position

When you want to return to the current stitch position and continue embroidering where the embroidery was interrupted, touch the Current Stitch Position icon. You can also press the Start/Stop button once to return to the current stitch position and start to embroider.

Park Position

When you have finished your embroidery, remove the hoop and select Park Position. The embroidery arm will be placed in the correct position for storage.

Use the Park Position when you want to move the embroidery arm out of the way for sewing.

Note: It is important that the hoop is removed before selecting Park Position to prevent damage.

Bobbin Position

To make it easier to change the bobbin, touch Bobbin Position. The hoop will move away from you, allowing you to open the bobbin cover and replace the bobbin.

Note: You can also touch the Stitch-ReStart button on your machine to move the hoop to bobbin access position.

Trim Position

Trim Position will move the hoop towards you making it easier to trim your jump stitches and trim fabric for specialty techniques.

Note: You can also use touch the Needle Up/Down button on your machine to move the hoop to trim position.

Center Position

Use the Center Position if you want to check where the center position of the design will be placed on the fabric.

COLOR FUNCTIONS ICON

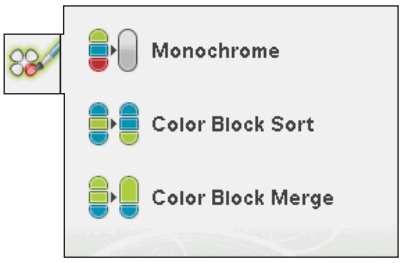
Use the color functions to ease the stitch out process.

Monochrome

Touch the icon to activate monochrome embroidery. All designs are shown in a grey color and the machine does not stop for color block changes. To deactivate monochrome embroidery, touch the icon again.

Note: If the Automatic Jump Stitch Trim function is selected in the SET Menu it will still be active between the color blocks.

Note: You can also touch the STOP button on your machine to stitch out your design in one color.

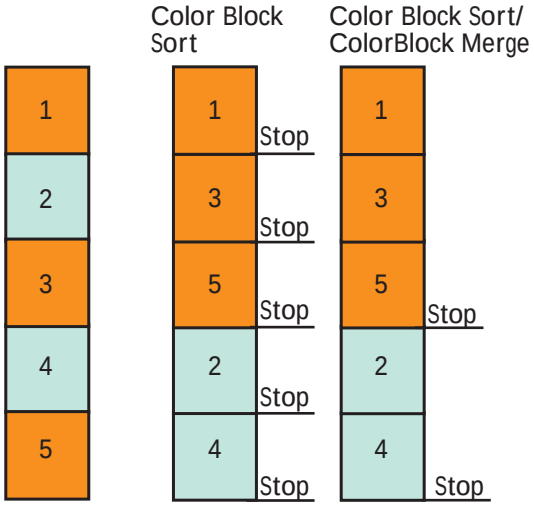


Color Block Sort and Color Block Merge

Color Block Sort intelligently sorts the colors in a design combination to sew all of one color at the same time. Color Block Merge eliminates the color stops between color blocks with identical colors. To sort the color blocks before embroidering, just touch the Color Block Sort icon.

Note: Color sort has to be performed before you start to embroider.

If you want the machine to ignore the stop between identical thread colors, after using Color Block Sort, touch the Color Block Merge icon. The functions can be turned off by touching the icon again.



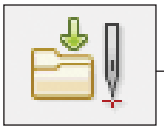
SMART SAVE

If you want to stop embroidering and save your current position, touch Start/Stop to stop the embroidery. Then touch the Smart Save icon to save the current position. You can now turn the machine off.

Smart Save remembers and stores all your design adjustments and you can continue to embroider later. Simply go to the Start Menu, Design Menu and touch Load Smart Save icon.

A design that you Smart Save is saved until you replace it.

Note: If you have chosen Auto Smart Save in the SET Menu, this icon will be disabled. The design info is automatically stored periodically as you embroider. If you should turn your machine off or loose power, it is easy to bring up the design ready to stitch from the same position. Go to the start menu at to the bottom of the Designs, and touch the Smart Save icon.

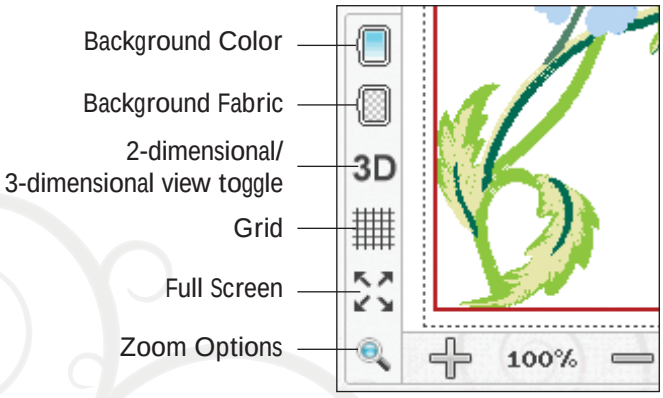

Smart Save

Load Smart Save

CORNER CHECK

Corner Check can be used to trace the four corners of the design so that you can see where the design will be on the fabric. Touch the corner check icon. Each time you touch the icon it will move the hoop in the following order: upper left, upper right, lower right, lower left and then go back to the current stitch position.

HOOP/DESIGN OPTIONS BAR



Background Color

Touch Background Color to change the active background color. A window will appear where you can select from 64 different colors.

Background Fabric

Touch Background Fabric to activate/deactivate the image of background fabric on the Ultimate Interactive Screen.

2-dimensional/3-dimensional view toggle

In 2-dimensional view, the designs load faster on the screen and it is easier to see the color blocks in the design. 3-dimensional view gives a more realistic view of the designs, with added shadows and depth.

Touch the "3D" icon to change to 3-dimensional view. The icon becomes selected. Touch again to deselect and return to 2-dimensional view.

Grid

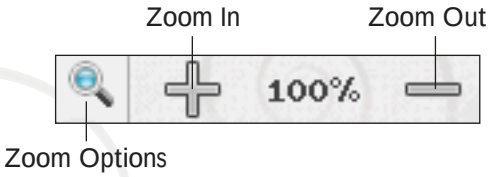
Touch the Grid icon to activate/deactivate a grid on the embroidery field. The grid is used as a guide when combining or placing designs. The distance between the grid lines equals a maximum of 20 mm. As you zoom in on the embroidery field, the distance between these lines reduces to 10mm and 5mm, indicated with lighter lines.

Full Screen

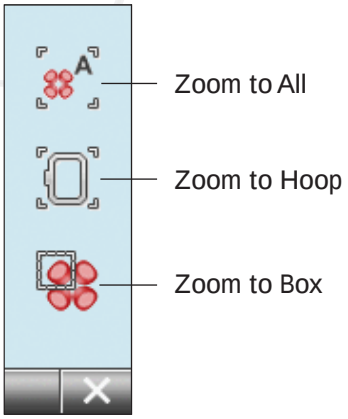
To see your design as large as possible, use the Full Screen function.The embroidery will fill the entire screen. To close, touch anywhere on the screen.

ZOOM OPTIONS

Zoom in or out of the embroidery field. Use Zoom In (+) to get a close-up of an area within the embroidery design. Use (-) to Zoom Out.



When you touch the zoom options icon a popup will appear displaying the different zoom options.



Zoom to All will show all the design(s) in the embroidery combination. Zoom to Hoop will adjust the embroidery field to fit the selected hoop.

Touch and drag your stylus in the embroidery field on the screen to create a box. The screen zooms to show that specific area.

Note: As you Zoom In your design gets very large. To locate a specific part of your design touch Pan. Touch and drag or use the control arrows to find the part you wish to work with.

REMAINING EMBROIDERY TIME BY COLOR

An estimation of the remaining embroidery time for the current color block is displayed in hours and minutes in the lower left corner of the screen. If Monochrome is activated, the estimated remaining embroidery time for the whole embroidery is displayed.

RETURN TO EMBROIDERY EDIT

Touch this icon to return to Embroidery Edit and make adjustments to your design(s). If you have started to embroidery or made any changes, a pop-up will appear asking you to verify that you want to return to Embroidery Edit even though all stitch-out information will be lost.

DELUXE™ STITCH SYSTEM

The *deLuxe*™ Stitch System has two ways to control the needle thread, Thread Tension and Thread Portioning. The *deLuxe*™ Stitch System improves the correct balance between needle thread and bobbin thread. Your machine will automatically use Thread Portioning when possible, to get the best result.

Thread Portioning automatically and continuously measures the fabric thickness to portion the correct amount of thread for embroidery. When using Thread Tension, the tension discs will keep the correct amount on tension on the needle thread.

The Sensor Q-foot is always recommended for embroidery. Certain optional accessories or special techniques may require the use of Thread Tension for best results. Deselect *deLuxe*™ Stitch System icon in the Machine Settings menu to switch to Thread Tension.

Note: If embroidering with Yarn Couching feet, deactivate deLuxe™ Stitch System icon in Machine Settings menu.

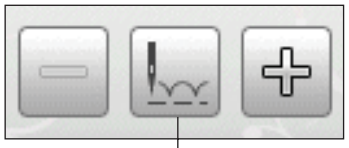
Depending on which function is active in the Machine Settings, the control visible in sewing/embroidery mode will change. Use the controls to adjust the balance between needle thread and bobbin thread, e.g., when using specialty thread.

Thread Tension control

Thread Portioning control

STEP STITCH-BY-STITCH CONTROL

Touch + to step forward and - to step backwards stitch by stitch. Use the - icon to move backwards a few steps after the needle thread breaks or runs out. Touch & Hold to move through the stitches more quickly. The cursor on the screen will follow the stitches in the embroidery field.



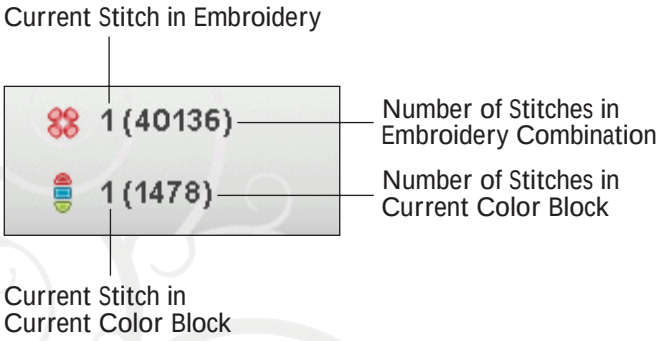
Go to Stitch

GO TO STITCH

To go to a particular stitch within the color block, touch the Go to Stitch icon. A pop-up message will appear, where you can enter the stitch number. The cursor will then move to that stitch number. If the number entered is too large, the machine will move to the last stitch in the color block.

NUMBER OF STITCHES IN EMBROIDERY COMBINATION

The current stitch in embroidery position in the design or combination is shown next to the flower. The number in brackets shows the total number of stitches in the design or combination.



NUMBER OF STITCHES IN CURRENT COLOR BLOCK

The current stitch position in the current color block is shown next to the Color Block picture. The number in brackets shows the total number of stitches in the current color block.

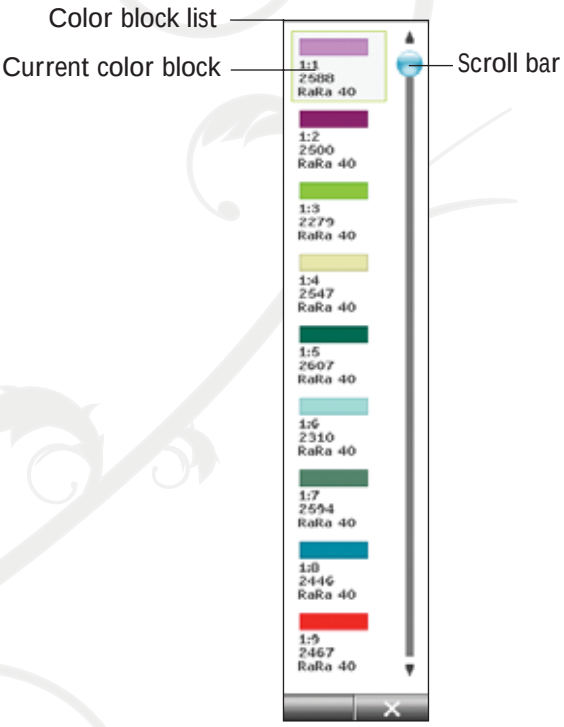
COLOR BLOCK LIST

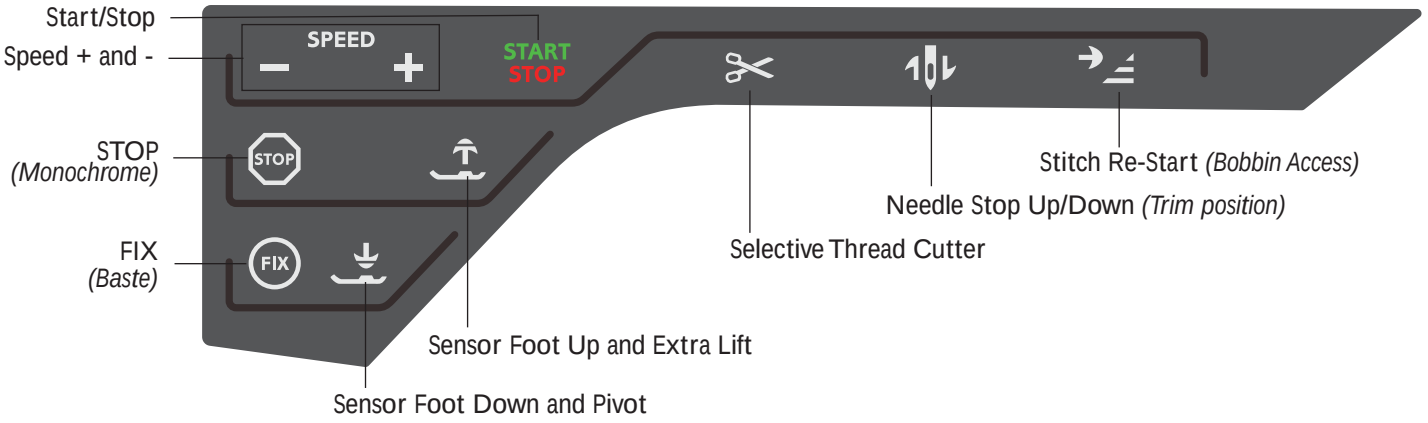
All colors in the loaded design(s) are shown in the order they will be embroidered. Each listed color shows color order and design number. Also shown are the thread manufacturer, thread weight and color number. Use the scroll bar to see all of the colors in the list. To go to another color block, just touch it in the Color block list.

Thread manufacturer and thread number are displayed for designs in .VP3 and .VIP-format. If changing thread color, some thread information may be lost.

Example: 1:2, 2500 RaRa 40, means the second thread color in the first design loaded is thread number 2500 of Robison-Anton 40 weight. If you have questions about other abbreviations of thread manufacturers, go to your 5D™ Embroidery Software Configure program (installed with your Machine Communication program) and enter the Thread Manager. There you can find information about thread manufacturers and thread type abbreviations.

To make changes to the Color Block List, return to Embroidery Edit.





FUNCTION BUTTONS IN EMBROIDERY STITCH-OUT

START/STOP

Touch this button to start and stop the machine sewing or embroidering without the foot control. Touch START/STOP to begin and touch again to stop.

SPEED + AND -

Touch Speed + or Speed - to increase or decrease the embroidery speed. When you are not embroidering, touch Speed and a pop-up message on the screen will indicate the speed setting. You can set the speed by touching the slider bar in the pop-up message. If you change the speed setting while sewing no pop-up message will appear.

Each hoop size has a pre-set embroidery speed. When sewing with metallic threads, or when sewing on delicate fabrics, embroidery speed may have to be lowered.

STOP (MONOCHROME)

Touch STOP to eliminate stops for color changes to create one-color embroidery. This activates the Monochrome setting on screen.

FIX (BASTE)

Touch FIX to baste an outline of the embroidery design area or to baste the fabric to the stabilizer. This activates the basting function setting on screen.

SENSOR FOOT DOWN AND PIVOT

The presser foot is lowered automatically when you start embroidering.

In Embroidery Mode, touch the Sensor Foot Down button to lower the presser foot into the Embroidery "floating" position.

SENSOR FOOT UP AND EXTRA LIFT

Touch the Sensor Foot Up and Extra Lift to lift the presser foot to Up position. Touch once more and the presser foot will raise to Extra Lift, to make it easier to insert or remove the hoop.

SELECTIVE THREAD CUTTER

The Selective Thread Cutter automatically cuts the threads and raises the presser foot. At the end of a color block the top thread only is cut. When the design is finished, both top and bobbin threads are cut automatically.

NEEDLE STOP UP/DOWN (TRIM POSITION)

If you touch the Needle Stop Up/Down in Embroidery mode, the hoop will move forward, toward you, for easy thread trimming.

STITCH RE-START (BOBBIN ACCESS)

In Embroidery Stitch-Out; touch Stitch Re-Start to move the hoop position back for easy bobbin access. When you touch the Stitch Re-Start button again, the hoop will move back into position and embroidery will resume at the current stitch position.

EMBROIDERY STITCH-OUT POP-UP MESSAGES

Embroidery unit calibration

When the embroidery unit is attached, a pop-up message asks you to slide off the hoop and clear the machine area for calibrating the embroidery arm. You will also be reminded to attach the Sensor Q-foot.

Note: It is very important to remove the hoop, otherwise the hoop or the embroidery unit may be damaged while calibrating.

Attach correct hoop

If the size of the hoop attached to the machine does not match the size displayed on screen, the machine will not embroider. You must change the hoop to the displayed size or change the hoop setting to match the hoop size attached.

The hoop needs to be inserted properly for the machine to detect it. Slide the hoop connector into the hoop attachment from front to back until it clicks into place.

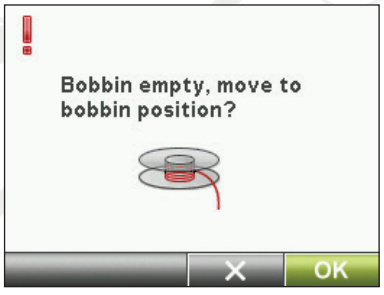
You will not be able to go to Embroidery Stitch-Out without the selected hoop attached properly.

Bobbin empty, move to bobbin position?

When the bobbin is almost empty, the machine stops automatically and a pop-up message appears on the screen.

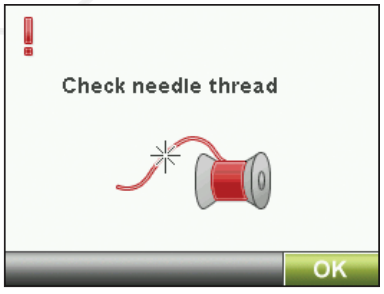
Note: It is possible to embroider until the thread has completely run out. Press the Start/Stop button to continue embroidering without closing the bobbin empty pop-up message.

Touch X to remain at the current Stitch position. Touch OK to move the hoop to bobbin position. The Move Hoop pop-up will appear. Replace the empty bobbin with a full one. Touch Current Stitch Position and pull back excess needle thread. Press start/stop or press your foot control to continue embroidering.



Check needle thread

The machine stops automatically if the needle thread runs out or breaks. Re-thread the needle thread, close the pop-up message, go back a few stitches using the Step Stitch-by-Stitch control and start embroidering again.



Change thread color

When it is time to change the needle thread, the machine stops and the upper thread is cut. Change the spool of thread and re-thread the machine. The next recommended color number is shown in the pop-up message.

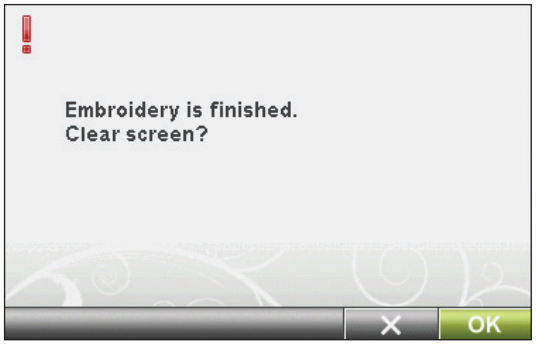
Cut thread end

After changing the thread, the machine will sew a few stitches and then stop so you can cut the thread end.

Note: When Automatic Jump Stitch Trim is selected in the SET menu, the thread end will be cut automatically. Simply remove the thread tail that has been cut.

Embroidery is finished - Clear screen?

When the embroidery is finished, the machine will ask you if you want to clear the screen. If you touch OK, the designs will be deleted and you will go back to Embroidery Edit. Touch Cancel to get back to your design and stay in Embroidery Stitch-Out.

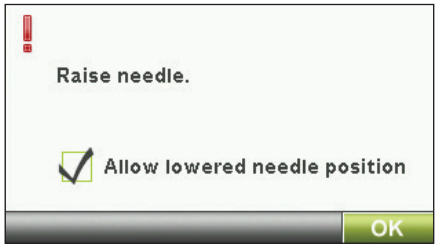


Raise needle

When the needle is lowered with the handwheel to check the needle position on the fabric, a pop-up message is displayed when trying to adjust the hoop position. Check the box to be able to fine tune the hoop position with the needle lowered.

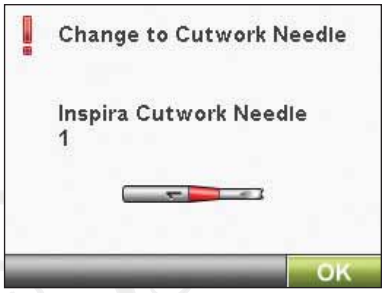
Note: Make sure the needle is above the fabric to prevent damage to the needle and fabric.

Note: The warning cannot be disabled when the needle is below the stitch plate.



Change to Cutwork Needle (optional accessory)

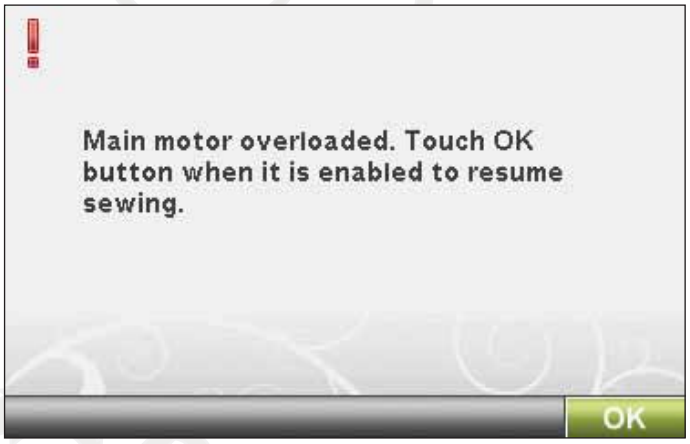
Some cutwork designs can be stitched out using the optional accessory HUSQVARNA VIKING® Embroidery Cutwork Needle Kit, (P/N 920268-096). These designs are marked with a cutwork needle symbol in the DESIGNER DIAMOND *deLuxe*™ Sampler Book. When the machine stops and this pop-up message is shown, insert the corresponding cutwork needle. Touch OK and press the Start/Stop button to resume.



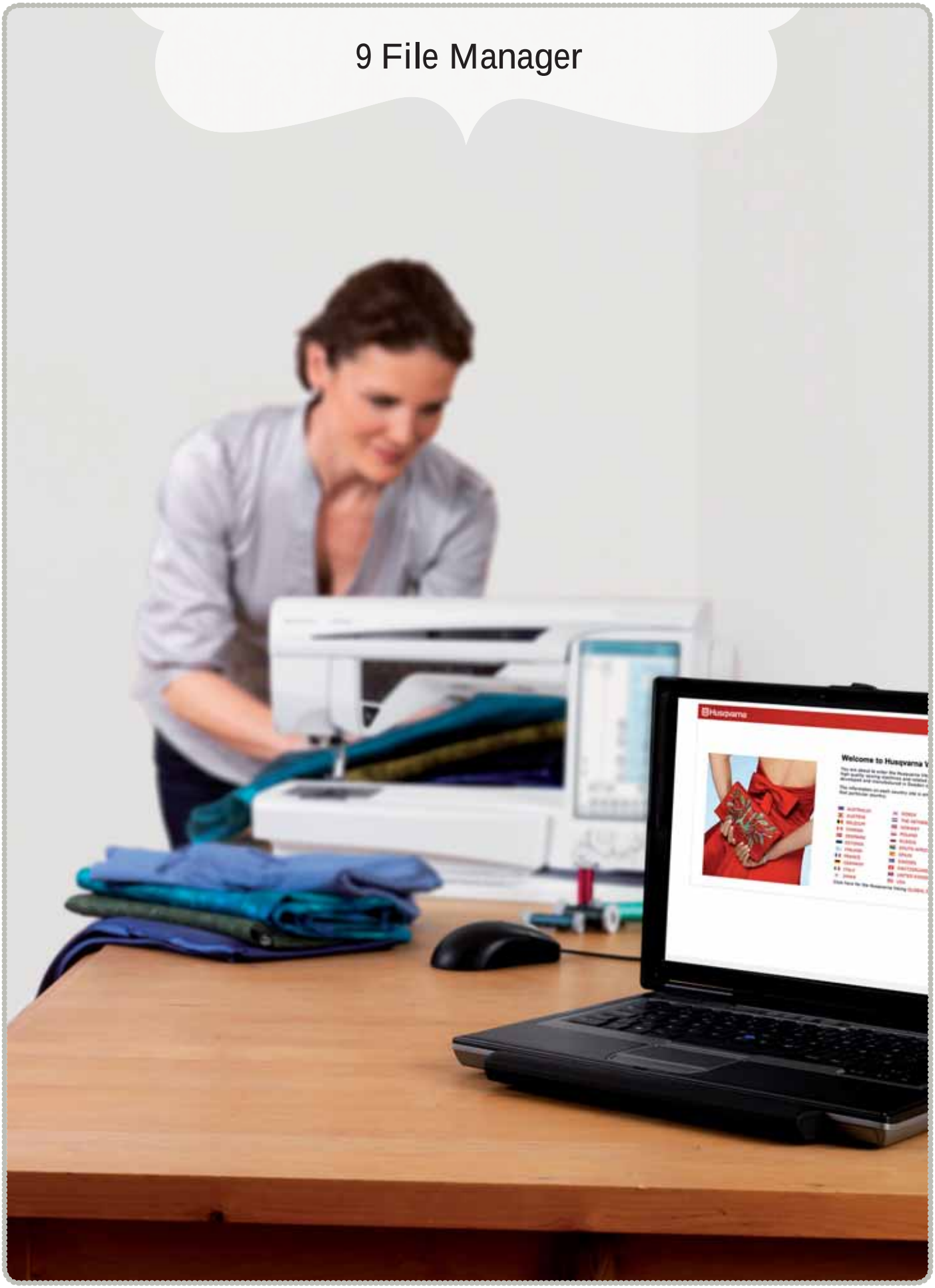
Note: These cutwork designs can also be stitched out without the cutwork needles, but will then have to be cut manually.

Main motor overloaded

If the machine is blocked when embroidering, the main motor can get overloaded. When the main motor and power supply are no longer overloaded, the OK button will be enabled. Touch OK to resume embroidering.



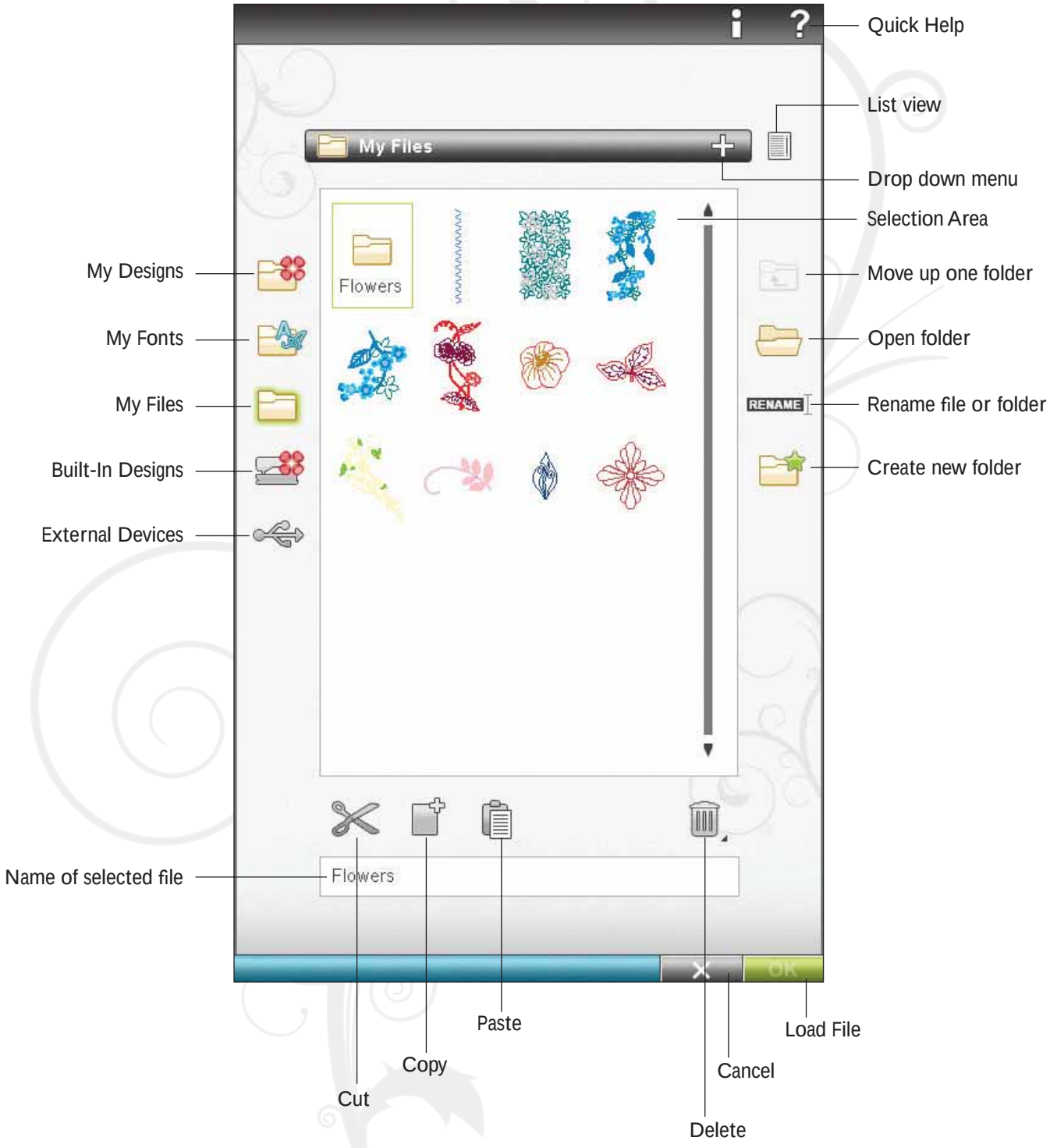
9 File Manager



FILE MANAGER

The File Manager is used to open, organize, add, move, remove and copy your designs, fonts and stitch files. Use either built-in memory or an external device connected to your machine for storing designs and files.

FILE MANAGER - OVERVIEW OF ICONS



AVAILABLE MEMORY

The built-in memory can store designs, fonts, stitches and other files. To check how much memory is still available in the built-in memory, go into File Manager, touch Quick Help and then touch either My Files, My Fonts or My Designs. A pop-up message shows how much memory is available.

FILE FORMATS

Your machine can load the following file formats:

- .SHV, .DHV, .VP3, .VIP, .HUS, .PEC, .PES, .PCS, .XXX, .SEW, .JEF, .EXP, .10* and .DST (embroidery files)
- .SH7 (stitch files),
- .VF3 (embroidery font files)
- .WAV (sound files)
- and also .TXT and .HTM/HTML-files.

BROWSE FILE MANAGER

To open File Manager, touch the File Manager icon on the extended toolbar.

Within the built-in memory there are four folders: My Designs, My Fonts, My Files and Built-In Designs. You can also explore external devices connected to the USB ports. The external device folder icon is only available when a device is connected to the machine.

Touch any of these icons to display their contents in the selection area. The path of the open folder is written in the drop down menu. Design files, embroidery font files and stitch font files are displayed as thumbnail images or with an icon.

List View

Touch the List View icon to show the files in the current folder listed in alphabetical order. For each file, file name and type will be displayed. Touch the List View icon again to switch back to thumbnail/icon view.

My Designs

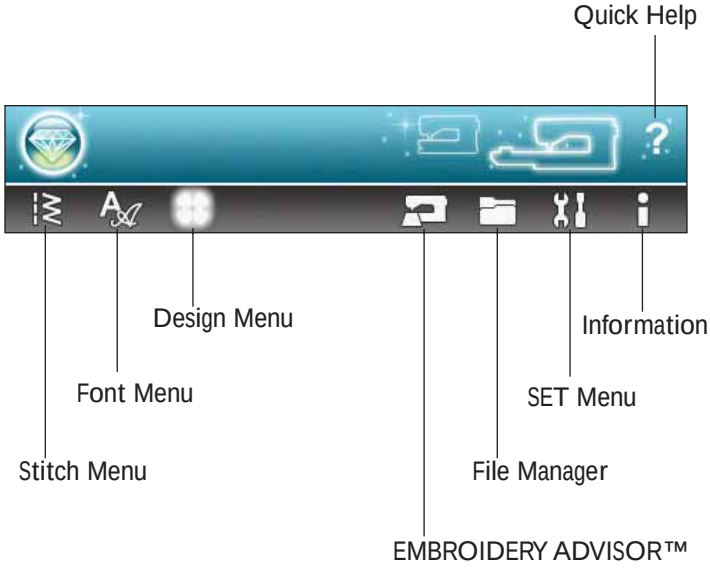
Store design files in My Designs. You cannot create folders in My Designs folder. You can reach Designs menu from the Extended toolbar and My Designs in File Manager.

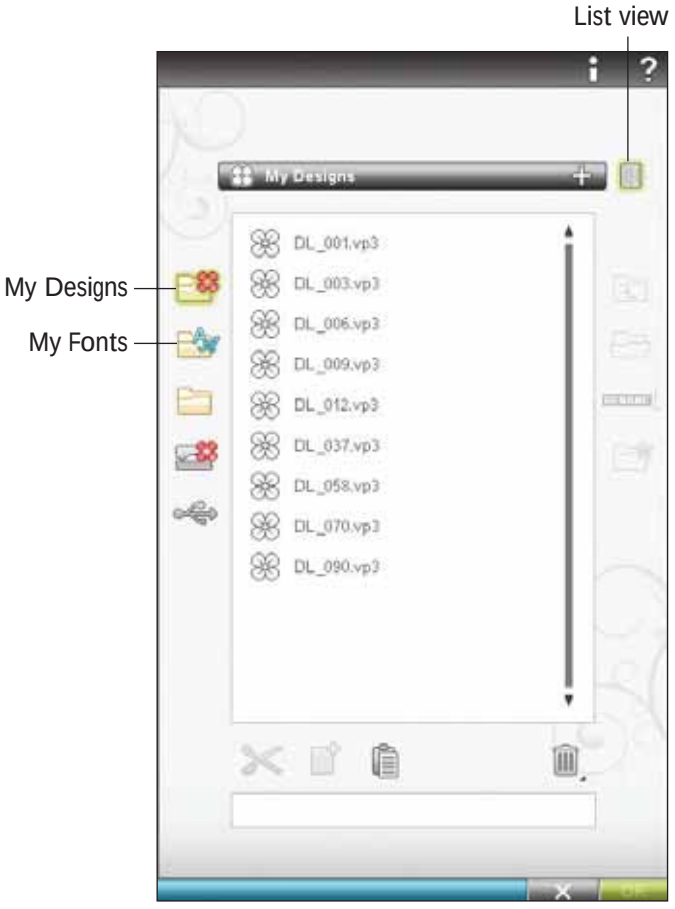
Note: If you want to open several designs at one time, click on the ones you want to open. Touch & Hold on the last one. All the designs will open in Embroidery Edit.

My Fonts

Store embroidery font files and stitch font files in My Fonts. You can reach the fonts from the Extended toolbar and the My Fonts in File Manager. You cannot create folders in the My Fonts folder.

Note: If the file type or file version is not supported by your machine, or the file is damaged, it is shown in the selection area as an unrecognized file.





My Files

Load My Files with designs, fonts, your customized designs, stitch programs, text files or any file that you want to store.

Create folders to keep your files organized.

This chapter will discuss how to arrange My Files so that you can find your favorites easily.

Built-in Designs

This folder contains the designs that are stored in the permanent sewing machine memory. No files can be added or removed from this folder, but they can be copied and pasted in another folder. You can reach Built-in Designs from the Design menu on the Extended toolbar and Built in Designs in File Manager.

If you want to open several designs at one time, click on the ones you want to open. Touch & Hold on the last one. All the designs will open in Embroidery Edit.

External Device

The external device icon is only active when a device is connected to the machine USB port. Touch External Device to display all connected devices. You can have your computer and another device such as a USB embroidery stick connected at the same time. Use a USB hub to connect more devices at one time. Touch the devices to explore.

	USB Embroidery Stick	Use to store files and/or move files to and from your computer.
	Computer	Load designs or other files directly from your computer. Store all file types here.
	CD-drive	Load or copy files from an external CD drive.

Open a folder

To open a folder, select it and touch the Open Folder icon or Touch & Hold to open it. The contents of the folder will be shown in the selection area.

Open a file

To open a file, click on the file with your stylus and touch OK. You can also Touch & Hold on the file to open it.

Move Up One Folder Level

Use the Move up one folder level icon to step up through the levels of folders. You can step up all the way to the first level. In the selection area you will see the files and folders for each level as you step.

Folder Structure

Touch the area of the Dropdown Menu to open a drop down window that shows the folder levels down to the current folder. Work your way back through the levels by touching a folder at another level.

Use the External Device icon to switch between external devices such as your computer or USB embroidery stick.

ORGANIZE

Create a new folder

Touch the create new folder icon to create a new folder. A pop-up message opens where you can enter a name for your folder.

Rename a file or folder

To change the name of a folder, touch the folder then touch the Rename file or folder icon. A pop-up message opens where you can enter the new name for a file or folder.

Move a file or folder

Use cut and paste to move a file or folder to another storage location.

Select the file or folder, then touch Cut. Open the folder where you want to place the file or folder. Touch Paste. The file or folder is now stored in a new location and is removed from the previous location.

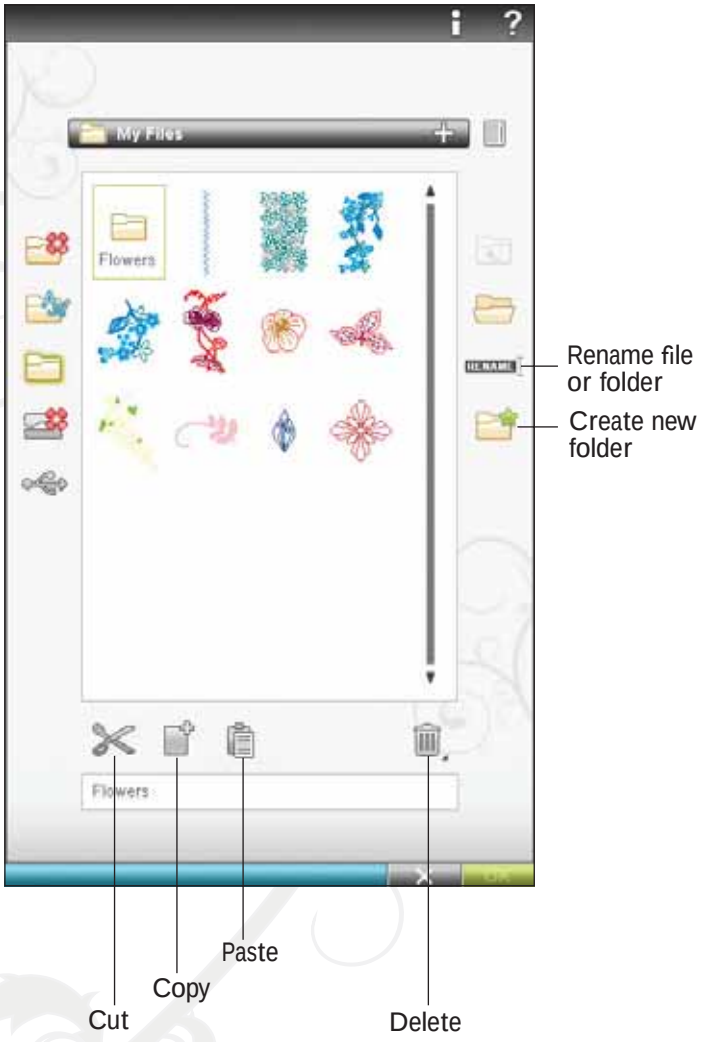
Copy a file or folder

Use Copy and Paste to copy a file or folder to another place.

Select the file or folder, then touch Copy. Open the folder where you want to place the file or folder. Touch Paste. The file or folder is now stored here and the original file or folder also remains in the original folder.

Delete a file or folder

To delete a file or folder, mark it and touch Delete. A pop-up message asks you to confirm the deletion. If a folder is deleted, all files within the folder are deleted as well. To delete all files or folders, touch and hold the Delete icon for a few seconds.



FILE MANAGER POP-UP MESSAGES

Audio Player

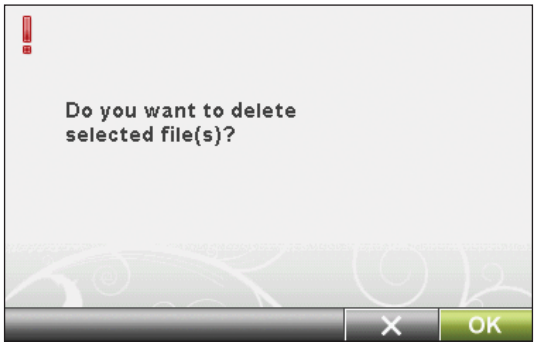
Sound files can be saved in My Files.

When opening a sound file in File Manager, it will open in the Audio Player application. Touch the Start icon to play the sound.

Note: You can only play PCM encoded WAVE-files. For optimal result the file should be 8-bit mono. The machine will not support compressed sound files.

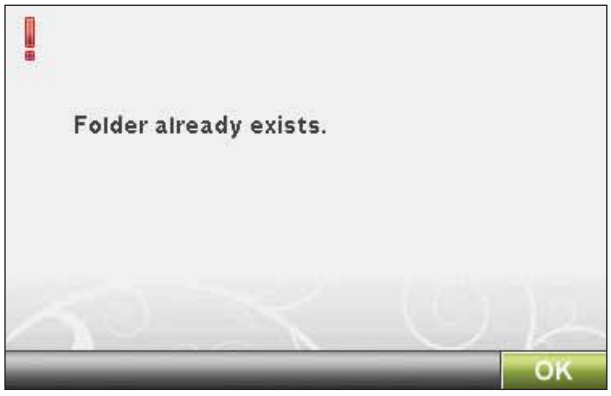
Delete file or folder

Your machine will ask you to confirm when you have selected to delete a file or folder. This prevents you from deleting anything by mistake.



Folder already exists

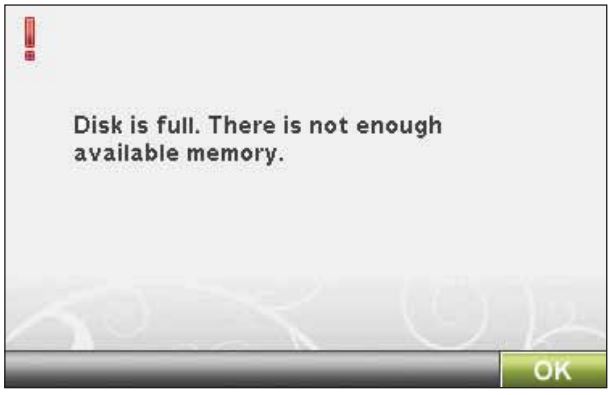
You cannot create a new folder with the same name as another folder on the same level. Create your folder elsewhere or enter a different name for the folder.



Disk is full

Your machine can store files in the built-in memory. When the memory is full, you can move them to an external device by using the Cut and Paste functions.

When only 15% of the memory is left, your machine will alert you once. If you continue to fill the memory, it will not remind you again, until the memory is completely full.

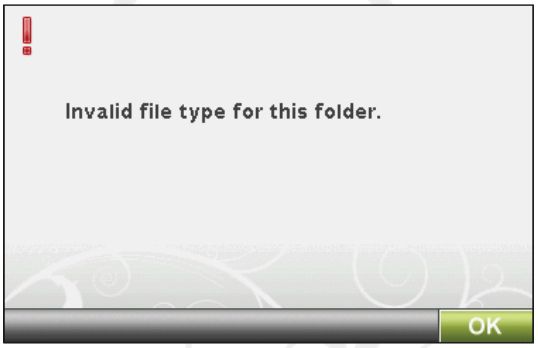


System busy

When the machine is loading, saving, moving files or performing a function that takes time, an hour glass is shown.

Invalid file type for this folder

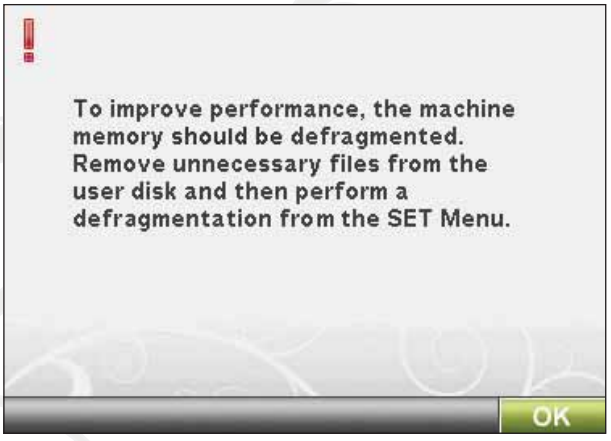
Only embroidery designs can be stored in My Designs, and only font files can be stored in My Fonts. Select the proper folder for each file type.



Defragment Machine Memory

To optimze the sewing machine's performance, you sometimes need to do a defragmentation of the memory. When that needs to be done a pop-up message appears. To defragment your memory, go to the Machine Settings in the SET Menu, and click on "Defragment Machine Memory".

The defragmentation can take up to 45 minutes.



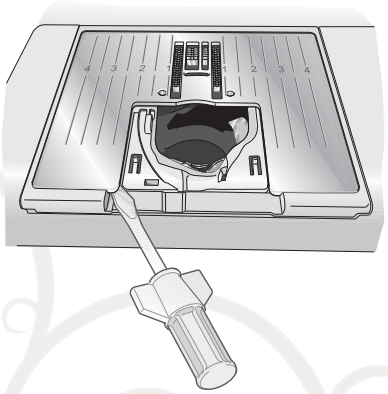
10 Maintenance

CLEANING THE MACHINE

To keep your sewing machine operating well, clean it often. No lubrication (oiling) is needed.

Wipe the exterior surface of your machine with a soft cloth to remove any dust or lint built up.

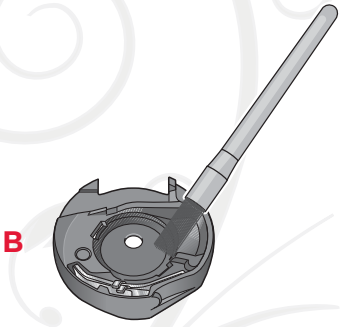
Wipe the screen with a clean, soft and damp cloth.



Cleaning the bobbin area

Note: Lower the feed teeth by pressing Presser Foot Up and Extra Lift. Turn off the machine.

Remove the presser foot and slide off the bobbin cover. Place the screwdriver under the needle plate as shown in the picture and gently turn the screwdriver to pop off the needle plate. Clean the feed teeth with the brush found with the accessories.



Cleaning under the bobbin area

Clean the area under the bobbin case after sewing several projects or any time you notice an accumulation of lint in the bobbin case area.

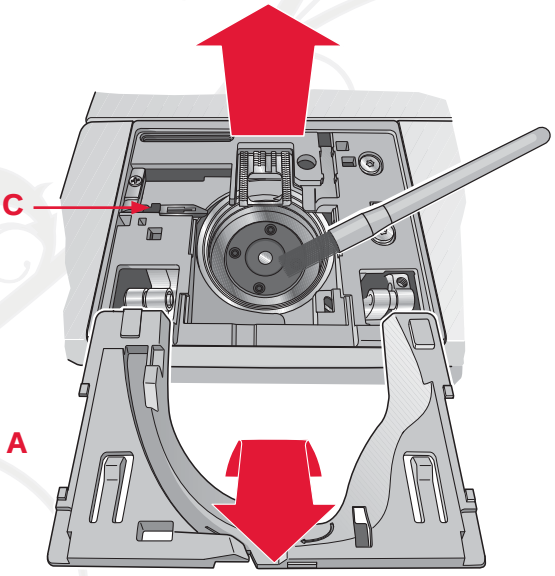
Remove the bobbin case holder (A) covering the front part of the bobbin case by lifting it up. Remove the bobbin case (B) by lifting it up. Clean with the brush.

Note: Use caution when cleaning around the Selective Thread Cutter knife (C).

Put the bobbin case and the bobbin case holder back in place.

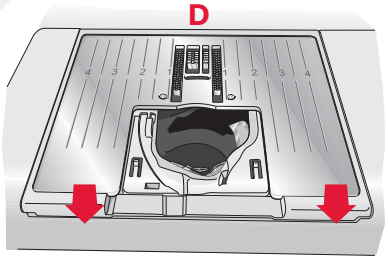
Note: Do not blow air into the bobbin case area. The dust and lint will be blown into your machine.

Note: When using the optional accessory HUSQVARNA VIKING® Embroidery Cutwork Needles, it is neccessary to clean the bobbin area after each embroidered design/project.



Replacing the needle plate

With feed teeth lowered, place the needle plate so that it fits into the notch at the back (D). Press the needle plate down until it clicks into place. Slide on bobbin cover.



TROUBLESHOOTING

In this troubleshooting guide you will find solutions to the problems you may have with your machine. For further information please contact your local authorized HUSQVARNA VIKING® dealer who will be happy to help you.

Problem/cause	Remedy
General problems	
Bobbin alarm does not work?	Clean lint from bobbin area and use only the original HUSQVARNA VIKING® bobbins approved for this model.
Thread cutter does not cut the thread?	Remove needle plate and clean lint from bobbin area. Enable automatic thread cutter in the SET Menu.
Fabric does not feed?	Make sure that machine is not set in Free Motion mode.
Wrong stitch, irregular or narrow stitch?	Deactivate Twin Needle or Stitch Width Safety Sewing Settings in the SET Menu.
The needle breaks?	Insert needle correctly as described in chapter 2.
The machine will not sew?	Check that all plugs are securely plugged into the machine and into the wall socket.
The screen displays the startup screen?	Touch the screen to activate. Turn off Screen Saver in the SET Menu.
Icons on the screen are not activated when touched?	Calibrate the screen. Calibrate is found in the SET Menu.
The sewing and embroidery machine screen and/or function buttons do not respond to touch?	The sockets and function buttons on the machine can be sensitive to static electricity. If the screen does not respond to touch, turn the machine OFF and then ON again. If the problem persists, contact your authorized HUSQVARNA VIKING® dealer.
The machine skips stitches	
Did you insert the needle properly?	Insert needle correctly as described in chapter 2.
Did you insert a wrong needle?	Use needle system 130/705 H.
Is the needle bent or blunt?	Insert a new needle.
Did you thread the machine properly?	Check how the machine is threaded. If needed rethread the machine.
Is the correct presser foot used?	Attach correct presser foot.
Is the needle too small for the thread?	Change the needle.
Is the fabric moving up and down with the needle when Free Motion sewing or embroidering?	Attach Sensor Q-foot.
Needle thread breaks	
Did you insert the needle properly?	Insert needle correctly as described in chapter 2.
Did you insert a wrong needle?	Use needle system 130/705 H.
Is the needle bent or blunt?	Insert a new needle.
Did you thread the machine properly?	Check how the machine is threaded. If needed rethread the machine.
Is the needle too small for the thread?	Change the needle to the proper size for the thread.
Are you using poor thread with slubs or thread which has become dry?	Change to a new high quality thread purchased from an authorized HUSQVARNA VIKING® dealer.
Is a correct spool cap used?	Attach a spool cap of the right size for the actual thread spool (see chapter 2).
Is the best spool pin position used?	Try a different spool pin position (vertical or horizontal).
Is the needle plate hole damaged?	Change the needle plate.

Bobbin thread breaks	
Did you insert the bobbin properly?	Check the bobbin thread.
Is the needle plate hole damaged?	Change the needle plate.
Is the bobbin area full of lint?	Clean lint from bobbin area and use only the original bobbins approved for this model.
Is the bobbin wound correctly?	Wind a new bobbin.

The seam has uneven stitches	
Is the Thread Tension correct?	Check needle Thread Tension and the threading.
Are you using too thick or slubbed thread?	Change the thread.
Is the bobbin thread evenly wound?	Check bobbin winding.
Is a correct needle used?	Insert a proper needle correctly as described in chapter 2.

The machine does not feed or feeds irregularly	
Did you thread the machine properly?	Check how the machine is threaded. If needed rethread the machine.
Has sewing lint collected between the feed teeth?	Remove the needle plate and clean the feed teeth with a brush.
Free Motion setting is on?	Turn off Free Motion setting in Sewing Mode.

Thread loops are forming on the underside of the embroidery design	
Has the embroidery built up too much to move freely under the presser foot?	Attach Sensor Q-foot. If using the R-foot, increase the presser foot height in Machine Settings in SET menu in small steps until problem is solved.

The embroidery design is distorted	
Is the fabric hooped properly?	The fabric must be tightly hooped.
Is the inner embroidery hoop completely inserted in the outer embroidery hoop?	Hoop the fabric in such a way that the inner hoop exactly matches the outer hoop.
Is the area around the embroidery arm free?	Clear area around the embroidery unit.

The embroidery design has puckered	
Did you stabilize your fabric sufficiently?	Ensure you use the proper stabilizer for your technique or fabric type.

The machine will not embroider	
Is the embroidery unit attached?	Make sure that the embroidery unit is properly attached into the socket.
Is the wrong hoop attached?	Slide on the correct hoop.

Have your sewing machine serviced regularly by your local authorized dealer!

If you have followed this troubleshooting information and still have problems, take your sewing machine to your dealer. If there is a specific problem, it is a great help to test sew with your thread on a scrap of your sewing fabric and bring it to your dealer. A sewing sample will often give much better information than words.

Non-original parts and accessories

The warranty does not cover any defect or damage caused by use of non-original accessories or parts.

INDEX

A

Accessories....1:8
Accessory tray....1:7, 2:3
Accessory tray, embroidery unit....6:2, 6:4
Add a letter into a text....7:10
Add/Remove Selection....7:2, 7:16
Adjustable E LIGHT™....1:6, 2:3, 3:12
Adjustments....7:14
Adjust text and stitches....5:4
Adjust the entire program....5:4
Adjust Thread Tension/Thread Portioning....4:9
Advanced selection....7:16
Alert Light....3:12
All purpose sewing thread....2:11
ALT....4:2, 4:6, 4:7, 5:2
Appearance....3:9
Appliqué Stitches....1:15, 3:3
Asymmetrical twin needles....2:10
Attach correct hoop....8:12
Attaching the Sensor Q-foot....2:9
Audio Player....9:7
Audio Repeat....3:11
Automatic Jump Stitch Trim....3:7, 6:4, 6:6
Auto Smart Save....3:9, 8:7
Auxiliary spool pin....1:6, 2:4, 2:6, 2:8
Available memory....9:3

B

Background Color....7:2, 7:11, 8:2
Background Fabric....7:2, 7:11, 8:2, 8:8
Bag/Bag fitting....1:9
Balance....4:10
Balance controls....3:6
Balance Length....3:6
Balance Width....3:6
Bartacks....4:21
Base plate....1:6
Baste....4:4, 4:14
Baste around design....8:6
Baste around hoop area....8:6
Baste in the hoop....8:6
Blind Hem....4:4, 4:14
Blindhem Foot D....1:9
Block Alphabet....1:18
Bobbin....2:7
Bobbin area....2:3
Bobbin case....2:8, 10:2
Bobbin cover....1:6, 2:8
Bobbin empty....4:24
Bobbin empty, move to bobbin position?....8:12
Bobbin, insert....2:8
Bobbin Position....8:6
Bobbins....1:8
Bobbin spindle....2:7
Bobbin winder....1:6
Bobbin winder lever....2:7
Bobbin winder spindle....2:3
Bobbin Winding....2:7
  Specialty Threads....2:7
Bobbin winding lever....1:6
Bobbin winding thread guide....1:6
Bobbin Winding through the needle....2:7
Bobbin Winding while embroidering or sewing....2:8
Bottom toolbar - Embroidery Edit....3:13
Bottom toolbar - Embroidery Stitch-Out....3:13
Browse File Manager....9:3
Brush....1:8
Brush Line Alphabet....1:18
Built-In Designs....6:2, 9:2, 9:4
Built-In needle threader....1:7, 2:5
Built-In tape measure....1:6
Built-In USB ports....1:6
Button....4:4
Buttonhole....4:4
Buttonhole Foot C....1:9
Buttonhole Stitches....1:14, 3:3
Button reed....1:8
Button ruler....1:6
Button Sew On....4:7
Button size....4:7

C

Calibrate....6:3
Cancel....3:13
Cancel Save Process....5:5
Carrying case....1:9, 2:2
Category....3:13
CD-drive....9:4
Center Check....8:3
Center Position....8:6
Change thread color....8:13
Change to Cutwork Needle (optional accessory)....8:14
Changing the needle....2:9
Changing the presser foot....2:9
Check needle thread....4:24, 8:12
Children Stitches....1:15, 3:3
Classic Collection CD....1:9
Cleaning....10:2
Cleaning the bobbin area....10:2
Cleaning the machine....10:2
Cleaning under the bobbin area....10:2
Close....9:2
Color Block....8:2
Color block list....8:10
Color Edit....7:2, 7:9
Color Functions....8:2, 8:7

Color Merge....8:7
Color Sort....8:7
Computer....2:13, 9:4
Computer Connection....2:13
Connecting the machine to your computer....2:13
Connectors for power cord....1:6
Connect the embroidery unit....6:3
Connect the foot control....2:2
Connect to and remove from the USB port....2:12
Connect to power supply....2:2
Control....7:2, 7:4, 8:3, 8:4
Control Center....7:6, 7:7, 7:13
Control functions- Embroidery Mode....3:16
Control Point....7:4
Copy....9:2, 9:6
Copy a file or folder....9:6
Corner Check....8:2, 8:3, 8:7
Crafting Stitches....1:17, 3:3
Create a new Folder....9:6
Current Stitch in Current Color Block....8:10
Current Stitch in Embroidery....8:10
Current Stitch Position....8:6
Cursor....5:2
Cut....9:2, 9:6
Cut-away stabilizer....2:11
Cut thread end....8:13
Cutwork Needles....8:14
Cyrillic Alphabet....1:18

D

Decorative Stitches....1:17, 3:3
Decorative Stitch Foot B....1:9
Decorative Stitch Foot B Transparent....1:10
Decorative Tapering Stitches....4:23
Defragment Machine Memory....3:9, 9:8
Delete....4:22, 5:2, 7:2, 7:14, 7:15, 9:2, 9:6
Delete a file or folder....9:6
Delete a letter....7:10
Delete a stitch or letter....5:4
Delete file or folder....9:7
Delete Saved Stitch or Program....5:5
deLuxe™ Stitch System....3:10, 4:9, 8:9
Denim needle....2:10
DESIGNER DIAMOND *deLuxe*™ Sampler Book....1:9, 6:3
DESIGNER™ Crown Hoop....1:8
DESIGNER™ Royal Hoop....1:8
DESIGNER™ Splendid Square Hoop....1:8
Design Menu....3:3, 3:4, 6:5, 7:3, 9:3, 9:4
Design Positioning....8:2, 8:3, 8:4, 8:5
Design Positioning Wizard....8:4
Designs....6:3, 7:15
Design Shaping....7:2, 7:4, 7:6
Design Stitch out Order....7:2, 7:14
Disintegrating stabilizer....2:11
Disk is full....9:7
Drop down....9:2, 9:3
Duplicate....5:2, 7:2, 7:4, 7:14
Duplicate a stitch or letter....5:4
Duplicate/Delete Last Object....7:5

E

Edge/Quilting guide....1:8
Edging Foot J....1:10
Editor....7:10
Edit Stitch Program....7:2, 7:10
Edit your stitch program....5:4
Eight - 8-way Stitches....1:17, 3:3
Embroidered buttonhole....4:17
Embroidery accesssory tray....1:7
EMBROIDERY ADVISOR™....3:3, 3:5, 7:3, 9:3
Embroidery arm....1:7
Embroidery combination is too complex....7:18
Embroidery/Darning Foot R....1:10
Embroidery Edit....3:13, 6:5, 7:2, 9:4
Embroidery Edit Pop-up messages....7:18
Embroidery Edit toolbar....7:3
Embroidery field....7:2
Embroidery hoop attachment....1:7
Embroidery hoop connector....6:2
Embroidery hoop overview....6:2
Embroidery is finished - Clear screen?....8:13
Embroidery Machine Communication CD....2:12, 2:13
Embroidery Machine Communication module....2:14
Embroidery Mode....3:2, 3:14, 3:15
Embroidery needle....2:10
Embroidery Stitch-Out....3:13, 3:14, 3:15, 6:5, 7:2, 8:2
Embroidery Stitch-Out pop-up messages....8:12
Embroidery thread....1:9, 2:11
Embroidery unit....6:2
Embroidery unit accessory tray....6:2
Embroidery unit calibration....8:12
Embroidery unit connection socket....1:7
Embroidery unit overview....1:7, 6:2
Embroidery unit release button....1:7
Embroidery unit socket....1:7
Exceeded maximum number of stitches....7:18
Exclusive EMBROIDERY ADVISOR™....3:3, 3:5, 7:3, 9:3
EXCLUSIVE SENSOR SYSTEM™....2:9, 3:15, 4:10
Exclusive SEWING ADVISOR™....4:2, 4:3
Extended Embroidery Edit toolbar....7:3
Extended SEWING ADVISOR™....4:2, 4:4
Extended Toolbar....3:3, 7:11, 9:4
External Device....7:11, 9:2, 9:4

F

Fabric....4:2
Fabric Selection....4:3
Fashion Stitches....1:17, 3:3
Feed Teeth Options....3:8
Felt pad....1:8, 2:6, 2:7, 2:8

File Formats 9:3
File Manager 3:3, 3:5, 4:5, 7:3, 9:2, 9:3
File Manager pop-up messages 9:7
FIX 1:6, 3:14, 8:11
FIX Auto 3:8
Flat metallic threads 2:7
Folder already exists 9:7
Folder Structure 9:5
Font Menu 3:3, 3:4, 4:5, 5:2, 7:3, 9:3
Foot control 1:6, 1:9, 2:2
Four - 4-way Stitches 1:17, 3:3
Free arm 1:7, 2:3
Free Motion Floating 4:8
Free Motion Spring Action 4:8
Free Motion Techniqe 4:2, 4:8
Full Screen 7:2, 7:11, 7:12, 8:7, 8:8
Function Buttons 3:14, 8:11

G

Getting started embroidering 6:5
Go to Stitch 8:9
Grid 7:2, 7:11, 7:12, 8:8
Group/Ungroup 7:2, 7:16

H

Handle 1:7
Handwheel 1:6
Heirloom Stitches 1:14, 3:3
Hem 4:4, 4:15
Hiragana Alphabet 1:18
Hoop 1:8, 6:2
Hoop clips 1:8
Hoop/Design options bar 7:11
Hoop Selection 3:9
Hoop the fabric 6:4
Horizontal Preview 5:2
Horizontal Spool Pin 2:5, 2:6
How to use the screen 3:2

I

Important Resize information 7:8
Included accessories 1:8
Index 3:13
Information 3:3, 4:5, 5:2, 7:3, 9:3
Information menu 3:13, 7:3
Inner hoop 6:2
Insert a stitch or letter 5:4
Inserting the bobbin 2:8
Installation Code 2:13
Installing your Software 2:13
Intellectual Property 10:11
Invalid file type for this folder 9:8
Iron-on tear-away 2:11

J

Jeans Hem 4:15

L

Language 3:9
Large spool cap 1:8, 2:6, 2:8
Launch the Programs 2:14
Leather 4:3
LED lights 2:3
Level adjusting feet 1:7, 6:3
Lid 1:6
Light 2:2
List View 9:3
Load a buttonhole 7:3
Load a design 7:3
Load a font 7:3
Load a stitch 7:3
Load a stitch from another location 4:5
Load from file 5:2
Locking point 8:4
Lock screen 3:12
Lower Case 5:2
Lower the presser foot 4:10

M

Machine Settings 3:6, 3:9
Magnifying glass 2:5
Main motor overloaded 4:25, 8:14
Main spool pin 1:6, 2:4
Manual bartack 4:21
Manual buttonhole 4:17
Marked and selected 7:16
Marked design 7:16
Matching point 8:4
Metallic threads 2:7
Mirror End-to-End 4:2, 4:7, 5:2, 7:2, 7:14
Mirroring 4:7, 5:4
Mirror Side-to-Side 4:2, 4:7, 5:2, 7:2, 7:14
Monochrome 8:7
Mouse 2:12, 3:2
Move a file or folder 9:6
Move Design Backward/Forward 7:14
Move Hoop 8:2, 8:6
Move to Corner 8:3
Move to Hoop 7:2, 7:11, 7:14
Move up one folder 9:2, 9:5
Multipurpose tool 1:8, 2:9, 4:18
My Designs 7:11, 9:2, 9:3, 9:4
My Files 5:5, 7:11, 9:2, 9:4
My Fonts 9:2, 9:3
My Hoops 7:2, 7:4
My info 3:13
My Stitches 3:4, 4:5, 4:6
My Stitches - Menu U 4:5

N

Name of selected file....9:2
Needle bar....1:7
Needle, changing....2:9
Needle clamp....1:7
Needle plate....10:2
  Remove....10:2
  Replace....10:2
Needle Recommendation....4:2
Needles....1:9, 2:10
Needle screw....2:9
Needle Stop Up/Down....1:6, 3:15, 8:11
Needle threader....2:5
Needle thread guide....1:7, 2:6
Non-original parts and accessories....10:4
Non-Stick Glide Foot H....1:9
Not a programmable stitch....5:8
Number of objects....7:4, 7:5
Number of Stitches in Current Color Block....8:2, 8:10
Number of Stitches in Embroidery Combination....8:2, 8:10
Numbers....5:2

O

OK....3:13, 9:2
Omnimotion Stitches....1:16
ON/OFF....1:6, 2:2
Open a file....9:5
Open a Folder....9:5
Open folder....9:2, 9:5
Organize....9:6
Outer hoop....6:2
Outline block Alphabet....1:18
Overcast....4:4, 4:12
Owner's Name....3:9

P

Pack away....2:2
Pack away after sewing....2:2
Pan....3:6, 7:2, 7:13
Park Position....6:3, 7:2, 7:11, 8:6
Paste....9:2, 9:6
PCM encoded....9:7
Perfectly Balanced Sensor One-Step Buttonhole....4:16
PICTOGRAM™ Pen....1:8, 2:11
Pictogram Stitches....1:14, 3:3
Pieces of fabric and stabilizer....1:9
Polarized plug....2:2
Position....7:2, 7:13
Power cord....1:9, 2:2
Power supply....2:2
Presser foot....1:9, 2:9
Presser foot bar and presser foot ankle....1:7
Presser foot, change....2:9
Presser Foot Lift....3:15
Presser foot recommendation....4:2
Pre-Tension Thread Guide....1:6, 2:5, 2:6, 2:7
Preview....5:4
Program....4:2, 5:2
Program Embroidery Edit....5:3
Program Embroidery fonts....7:10
Program in Sewing Mode....5:3
Program Length....5:2
Programmable Button Sew On....4:18
Programmed Stitch Length....5:2
Program mode information....5:7
Program pop-up messages....5:8

Q

Quick Guide....1:9
Quick Help....3:2, 4:2, 4:5, 5:2, 8:2, 9:2
Quick release....6:2, 6:4
Quilter's 1/4" Piecing foot P....1:10
Quilt Stitches....1:15, 3:3

R

Raise and lower the presser foot....4:10
Raise needle....8:13
Raise the presser foot....4:10
Redo....7:2, 7:12
Register your 5D™ software....2:13
Re-load a stitch program....5:7
Remaining Embroidery Time by Color....8:9
Removable bobbin holder....1:7
Remove Sensor One-Step Buttonhole Foot....4:24
Remove the embroidery unit....6:3
Rename file or folder....9:2, 9:6
Replace a stitch or letter....5:4
Replacing the needle plate....10:2
Resize....7:2, 7:7, 7:8
Resize adjustments....7:7
Retain Fill Type....7:7
Retaining screw....6:2
Return to Embroidery Edit....8:2, 8:9, 8:10
Reverse....1:6, 3:16
Reverse indicator....1:6
Ribs....6:2
Rotate....7:2, 7:13
Rotate design....8:4

S

Save a stitch program....7:10
Save on Free Position....5:5
Save on Occupied Position....5:5
Save to My Designs....7:2, 7:11, 7:12, 8:8
Save to My Files....5:2
Save to My Stitches....4:2, 4:22, 5:2, 5:5
Save your Program in "My Files"....5:5

Scale 7:2, 7:13
Scallop Stitches 1:16, 3:3
Scissors 1:9
Screen and Light Settings 3:6, 3:12
Screen Saver 3:12
Screwdriver 1:8
Script Alphabet 1:18
Scroll bar 3:16, 8:2
Scroll Through Menus 4:2
Scroll to Beginning 5:2
Scroll Up 5:2
Seam 4:4, 4:11
Seam and Overcast 4:13
Seam/Overcast 4:4
Seam/Overcast for Ribbing 4:13
Seam ripper 1:8
Select All 7:2, 7:15
Select a stitch 3:4, 4:5
Select design angle 7:5
select designs 7:15
Select designs exercise 7:17
Selected design 7:16
Selected hoop 7:2
Selecting a Design 3:4
Selecting a Font 3:4
Selection Area 9:2
Selection Modes 7:16
Selective Thread Cutter 3:14, 3:15, 4:10, 8:11
Selective Thread Cutter Auto 3:7
Selective Thread Cutter button 1:6
Select line positioning 7:5
Select more than one color block 7:9
Select one design 7:15
Select side positioning 7:5
Select spacing 7:4
Self-Adhesive Glide Plates 1:10
Sensor Buttonhole foot 4:17
Sensor Foot Down and Pivot 1:6, 3:14, 3:15, 4:10, 8:11
Sensor Foot Pressure 3:6, 4:10
Sensor Foot Up and Extra Lift 1:6, 3:14, 3:15, 4:10, 8:11
Sensor One-Step Buttonhole Foot 1:10, 2:5
Sensor One-Step Buttonhole Foot socket 1:7
Sensor Presser Foot Lift 3:8
Sensor Q-foot 6:2
Sensor Q-foot for embroidery 3:10
SET Menu ... 2:3, 2:9, 3:3, 3:6, 4:5, 4:10, 6:4, 7:3, 8:7, 9:3, 9:8
Set Number of Objects 7:5, 7:6
Sewing a stitch program 5:6
Sewing/Embroidery Mode 3:2, 4:2, 4:5, 7:2
Sewing/Embroidery Mode toolbar 3:3
Sewing Mode 3:14, 3:15, 4:2
Sewing pop-up messages 4:24
Sewing Settings 3:6, 3:7
Sewing Techniques 4:2, 4:4, 4:11
Sew the buttonhole 4:16
Shapes 7:4
Shortcuts 2:14
Side Motion Foot S 1:10
Slide on the hoop 6:4
Smart Save 8:2, 8:7
Socket 6:3
Soft carrying bag 6:3
Software
- 5D™ Embroidery Software 2:13
- 5D™ Organizer 2:13
- 5D™ QuickFont 2:13

Sound Settings 3:6, 3:11
Space for accessories 1:7
Special Sewing Techniques 4:23
Specialty Stitches 1:17, 3:4
Speed + and - 1:6, 3:14, 8:11
Spool cap 1:8, 2:4
Spool cap, medium 1:8
Spool cap, small 1:8
Spool pins 2:4
- Auxiliary spool pin 2:4
- Horizontal position 2:4
- Vertical position 2:4

Stabilizer 2:11, 6:4
Stabilizer Recommendation 4:2
Start Menu 3:2, 4:2, 4:5
Start/Stop 1:6, 3:14, 8:11
Step Stitch-by-Stitch 8:2, 8:9
Step Stitch-by-Stitch control 8:9
Step Through Designs 7:2, 7:15
Sticky stabilizer 2:11
Stitch Density 4:7
Stitches 1:11
Stitch Length 4:2, 4:7, 5:2
Stitch Menu 3:3, 4:5, 5:2, 7:3, 9:3
Stitch Menu Name 4:2
Stitch plate 1:6
Stitch position 4:6
Stitch Positioning 4:6
Stitch program commands 5:6
Stitch program out of range 5:8
Stitch Re-Start 1:6, 3:15, 8:11
Stitch Selected 4:2
Stitch Selection area 4:2
Stitch Settings 3:6, 4:6, 4:9
Stitch Start 4:2
Stitch submenus 3:3
Stitch Width 4:2, 4:7, 5:2
Stitch Width Safety 3:7, 4:25
STOP 1:6, 3:14, 8:11
Stretch heavy 4:3
Stretch Hem 4:15
Stretch light 4:3
Stretch medium 4:3
Stretch needle 2:10
Stretchy threads 2:7
Stylus 1:8

Stylus holder....1:6
Submenus....4:5
Suggested Fabrics....4:3
Supported file formats....9:3
System busy....4:24, 9:8

T

Take-up lever....2:5, 2:6
Tapering icon....4:23
Taper Satin Stitch....4:23
Tear-away stabilizers....2:11
Tension discs....1:6, 2:5, 2:6
Tension/Portioning Compensations....3:10, 4:9
Text....3:13
Thread Color Change....7:9
Thread cutter....1:6, 2:3, 2:8, 3:15
Thread cutter for bobbin winding....1:6
Threader hook....2:5
Thread guide....2:5, 2:6, 2:7, 2:8
Threading for twin needle....2:6
Threading the Upper Thread....2:5
Thread Manufacturer....3:9
Thread net....1:8
Thread Portioning control....4:2, 4:9, 8:2, 8:9
Thread Portioning....3:10, 4:9, 8:9
Threads....2:11
Thread sensor....2:6
Thread slot....1:6, 2:6
Thread take-up lever....1:6
Thread Tension....3:10, 4:9, 8:9
Thread Tension control....4:2, 4:9, 8:2, 8:9
Time left in color block....8:2
Timer....3:9
To edit a programmed stitch in Embroidery Edit....5:3
To hoop the fabric....6:4
Toolbar....3:2, 4:5
To program in Embroidery Edit....5:3
To program in Sewing Mode....5:3
To re-load a stitch program....5:7
To save a stitch program....5:7
To save a stitch program in Embroidery Mode....7:10
To start resizing....7:7
Total number of stitches in design combination....7:2
Touch functions....7:13
Touch & Hold....3:16
Touch Screen Adjust....3:12
To use the Editor....7:10
Transparent thread....2:11
Trim Position....8:6
Troubleshooting....10:3
Twin Needle....3:7, 4:25
  Threading for twin needle....2:6
Two - 2-dimensional/3-dimensional view toggle....7:2, 7:11, 8:2, 8:8

U

Ultimate Interactive Screen....1:6, 3:2
Undo....7:2, 7:12
Universal needle....2:10
Unpacking....2:2
Unrecognized file....9:3
Update your Machine....2:14
Upper Case....5:2
USB embroidery stick....1:8, 2:12, 2:14, 9:4
USB PC cable....1:9, 2:12, 2:14
USB ports....2:12
User-Defined Sound....3:11
User´s Guide....1:9
Utility Foot A....1:9
Utility Stitches....1:14, 3:3

V

Vertical position....2:4
Vintage Stitches....1:16, 3:3
Vinyl....4:3
Volume....3:11

W

Warranty card....1:9
Water soluble stabilizer....2:11
WAVE-files....9:7
What is a stitch?....4:6
Winding Bobbin....2:7
Winding Specialty Threads....2:7
Windows® 7/ Vista....2:13
Windows® XP....2:14
Wing needles....2:10
Woven heavy....4:3
Woven light....4:3
Woven medium....4:3
Woven or Knit....4:3

Z

Zipper Foot E....1:9
Zoom In....7:2, 7:11, 7:12, 8:8
Zoom In/Zoom Out....7:2, 8:8
Zoom Options....7:2, 7:12, 8:8
Zoom Out....7:2, 7:11, 7:12, 8:8
Zoom to All....5:4, 7:12, 8:2, 8:8
Zoom to Box....7:12, 8:8
Zoom to Cursor....8:3
Zoom to Hoop....7:12, 8:8

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5D™ EMBROIDERY MACHINE COMMUNICATION CD

(For personal computer. See page 2:13)

Please note that on disposal, this product must be safely recycled in accordance with relevant National legislation relating to electrical/electronic products. If in doubt please contact your retailer for guidance.

Designer Diamond deLuxe™

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