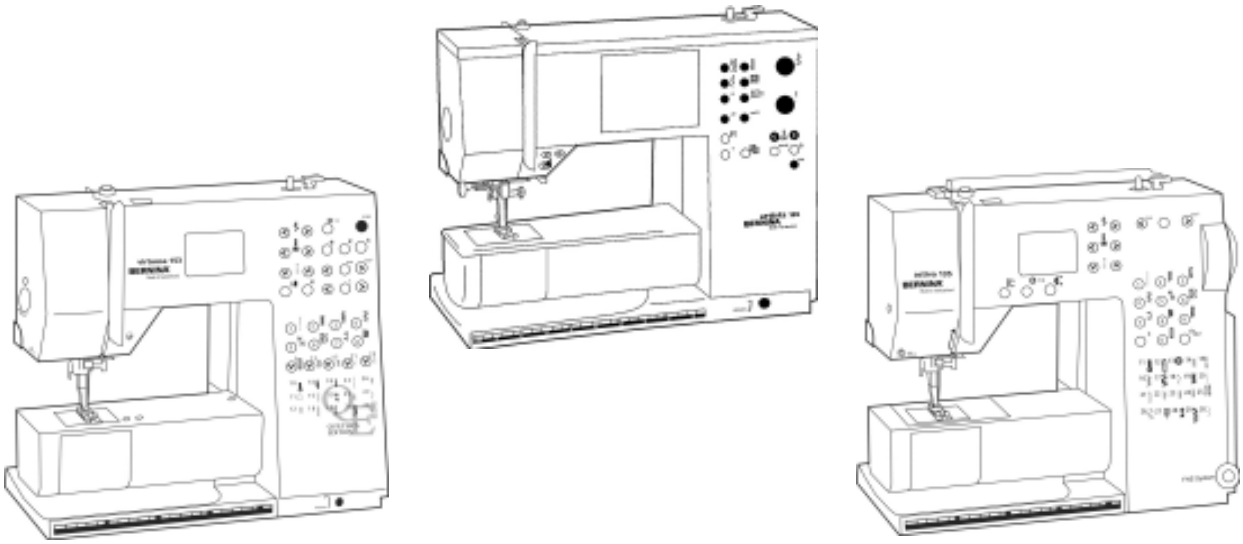
Mastering Your BERNINA®

Mastering Your BERNINA® Sewing Machine



Owner's Workbook

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Class 1
General Information
Class Overview

Machine Overview
- Parts of the machine
- Setting up the machine
- Getting ready to sew
  - Winding a bobbin
  - Threading the upper thread
  - Using the needle threader

Presser Feet & Accessories
- BERNINA's philosophy - use correct tools
- Specific feet for each machine
- Attaching the presser feet
- Overview of additional feet
- Stitch Plates
- Feed Dog

Stitch Access
- How to find the stitches on your machine
- Making the settings for each stitch

Tension
- Adjusting tension
- Stitch formation

Needle Stop Adjustment
- Foot control
- Needle Stop Up/Down function
- Correct use of handwheel

Needles
- Types of needles
- Sizes of needles
- Parts of needle
- Matching needle and thread

Thread
- Good quality vs. poor quality
- Fibers and weight
- Thread storage ideas

Stabilizers & Interfacing
- Difference between the two
- Different types and applications
- Sewing sprays

Samples
1. Straight Stitch/Seaming
2. Needle Positions
3. Securing Stitches
4. Stitching Corners
5. Zigzag/Oversewing Edges
6. Satin Stitch
7. Topstitching/Edgestitching
8. Basting
9. Temporary Altered Memory

Care and Cleaning of the Machine
- Cleaning the feed dog and needle areas
- Cleaning and lubricating the hook
- Cleaning the outside of the machine

This class is formatted for owners of the following models of BERNINA® sewing machines:

- ***classic*** 1008
- ***activa*** 125
- ***activa*** 135PE
- ***activa*** 145
- ***virtuosa*** 153QE
- ***virtuosa*** 155 "my choice"
- ***artista*** 165
- ***artista*** 185
- ***artista*** 200

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Introduction

Congratulations on your purchase of a BERNINA® sewing machine!

This workbook is designed to be used in conjunction with the Owners Classes you will take at your BERNINA® dealership, and contains a series of exercises intended to familiarize you with the features of your new BERNINA® sewing machine. In addition, you will learn about needles, threads, stabilizers, interfacing, presser feet and accessories, all of which will increase your knowledge of sewing and assist you in achieving success in all of your sewing endeavors.

Once you have completed the exercises designated for your BERNINA® machine, attach the sewn samples to the indicated pages and insert the pages into plastic page protectors and store them in a 3-ring binder. They can then be used as a reference tool in the future as you use your machine and explore the creative possibilities it affords you.

BERNINA® of America, Inc. strives to provide its customers not just with quality sewing machines, but with informative publications and classes. Along with providing Owners Classes, your local BERNINA® dealer stocks BERNINA® books and magazines, such as *Feetures* and *Through the Needle*. Plus, BERNINA® of America, Inc. has a website – www.berninausa.com – offering free projects, basic sewing information, a glossary of sewing terms, inspirational stories, interviews with creative stitchers, and a variety of articles and postings that appeal to all types of stitchers, no matter which machines are their favorites.

Learn to use your BERNINA® machine to its full extent and enjoy being creative with fabric and thread!

My BERNINA® sewing machine model is: _____

I purchased it on: _____

at _____

_____

_____

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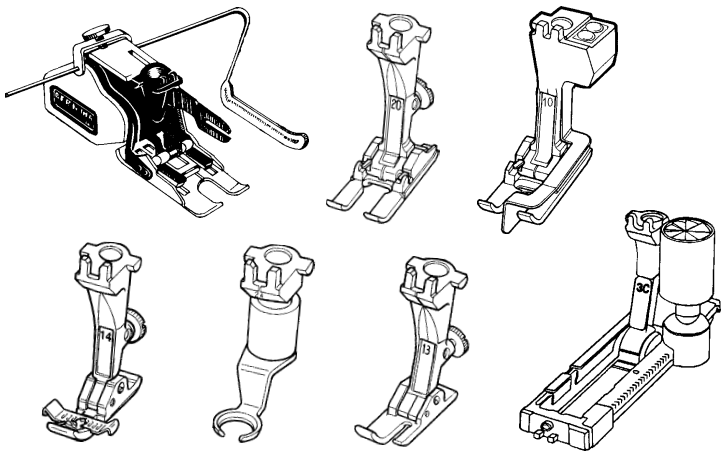
Meet Your Feet

BERNINA® Presser Feet:

- are precision engineered for specific functions
- are Swiss-made for the highest quality
- are one-piece metal feet, making them sturdy and durable
- are easy to change with one hand, requiring no special tools
- have a white shank, making it easier to see the eye of the needle, resulting in easier threading
- are, in some cases, modeled after commercial feet used in factories to increase speed and production with professional looking results
- do the job intended in relation to all types of sewing (ex. garment-making, quilting, home dec, etc.)
- are supported by the best and most complete educational materials in the industry, such as *Feetures* and the BERNINA® website at www.berninausa.com

BERNINA Feetures
A Guide to Presser Feet, Accessories, and Attachments



BERNINA®'s Top Ten List

ONE
Walking Foot #50

TWO
Patchwork Foot #37

THREE
Edgestitch Foot #10/10C

FOUR
Freemotion Quilting Foot #29/29C

FIVE
Clear Foot #34/34C

SIX
Bulky Overlock Foot #12/12C

SEVEN
Button Sew-On Foot #18

EIGHT
Open Embroidery Foot #20/20C

NINE
Clear Applique Foot #23

TEN
Invisible Zipper Foot #35

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Sewing Machine Needles

Along with thread, needles are very important to stitch formation. Many "mechanical" problems and damage to fabrics can be traced to a bent, damaged, or incorrect size or type needle. Approximately 60% of all needles made are discarded at some stage of production. When selecting the correct needle for any sewing project, consider the following:

Needle system – 130/705H
Needle point – to assure proper stitch formation and avoid fabric damage
Needle size – smaller for lightweight fabrics; larger for heavier fabrics

If the needle is:
Too small – the thread can't stay in the groove to form a loop to be picked up by the hook point
Bent – thread loop forms too far away from hook point; hook can't enter loop to form stitch
Blunt – needle won't pierce fabric so no thread loop forms to make a stitch

Need To Know

• Needle should be changed every 4-6 hours of sewing. The needle is the most inexpensive part in your sewing machine but is one of the most crucial for getting good results and keeping your machine running well. Don't let false economy keep you from doing what is best for your sewing projects and your machine.

• European needles are chrome-plated to glide in and out of fabric easily.

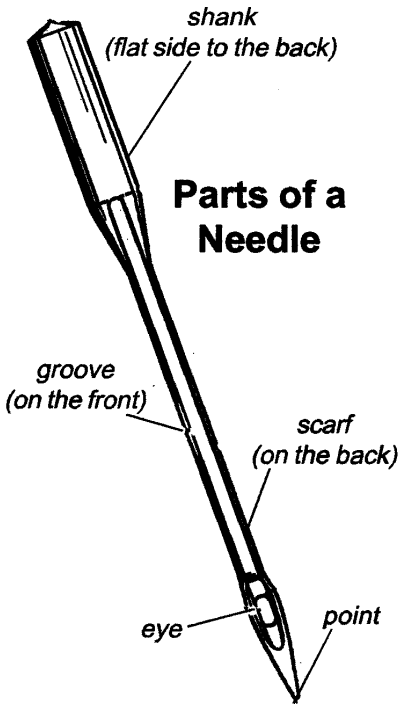
• The selected thread should fit in the groove on the front of the needle. If it isn't protected by the groove, a needle with a larger groove should be used.

• Always make sure needles are fully inserted as high as possible, with the flat side to the back.

Needle Size Conversion

European	vs.	Domestic
60 = 8	90 = 14	Regardless of the system,
70 = 10	100 = 16	the greater the number,
75 = 11	110 = 18	the larger the diameter
80 = 12	120 = 19	of the needle.

Notes



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Sewing Machine Needles

Ball Point	70-90	Has a rounded point. 70 for lingerie, nylon, jersey; 80 for T-shirt; 90 for sweatshirt fleece.
Stretch	70-90	A stretch needle has a more rounded point and a blue anti-cling coating which helps to prevent skipped stitches in knits and elastic. Sometimes used on Ultrasuede®, vinyl, and plastic.
Stretch Double	2.5/75 4.0/75	Two ballpoint needles on one shank; each needle has a large scarf. Used for hemming and for stitching on knit fabric.
Universal	60-110	A compromise between a sharp and a ballpoint needle; can be used on both wovens and knits. 60 – very fine batiste 70 – broadcloth 80 – trigger and gabardine 90 – denim and twill 100 & 110 – canvas
Double Universal	1.6/70- 8.0/100	Two needles attached to one shank. Used for pintucks, hems, and decorative work.
Triple (Drilling)	3.0/90	Three needles attached to one shank. Used to create mock smocking and other decorative effects.
Jeans	70-90	Has a sharp point and a shaft that is less prone to flex. The sharpness of the needles makes it better for use on denim and woven fabrics where a clean stitch is desired.
Jeans Double	4.0/100	Two Jeans needles attached to one shank. For topstitching on denim with heavy thread; can also be used for decorative stitching with metallic thread.
Microtex Sharp (Schmetz) **Microfiber (Lammertz)**	60-90	A sharp point with a thin shaft. 60-90 corresponds to the weight of the fabric; as the fabric gets heavier or denser, the number is higher. Specially designed for microfiber fabrics.
Quilting	assort'd (75 & 90)	The thin, tapered point of this needle causes less damage to fabric when seaming and cross seaming.
Topstitch	80-100	A sharp point with a large eye and deep groove. For use with heavier fabrics – the large groove cradles heavier threads.
Embroidery (Schmetz) **Metafil (Lammertz)**	75-90	Sharp needle with a large eye and groove; also has a coating and a larger scarf. For use with embroidery thread – prevents shredding of rayon or metallic threads. Two threads may be used through the eye of an 80 or 90 needle.
Metafil Double	3.0/75	Two Metafil needles attached to one shaft; for double needle work with embroidery threads.
Wing	100- 120	Sharp pointed needle with a non-cutting wedge of metal on each side. Needle makes a hole in the fabric without cutting the threads of the fabric. Used for decorative and heirloom work, such as hemstitching. Works best on natural fibers or on the bias.
Double Wing	100	One regular needle and one wing needle attached to a single shaft. Use the same as a Wing; makes one large and one regular hole.
Leather	80-90	Point is a sharp cutting wedge. Used for leather only. Not for vinyl or simulated leathers.

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Thread

Poor quality or the wrong type of thread can cause poor stitches on any machine. Thread passes through the eye of the needle approximately 37 times in a "seesaw" action before it forms a single stitch. Poor quality thread results in crooked and looped stitches, puckered seams, frayed thread, and/or needle breakage. To achieve quality stitches, a sewing machine needs three things: correct thread, correct size needle, and properly adjusted thread tensions.

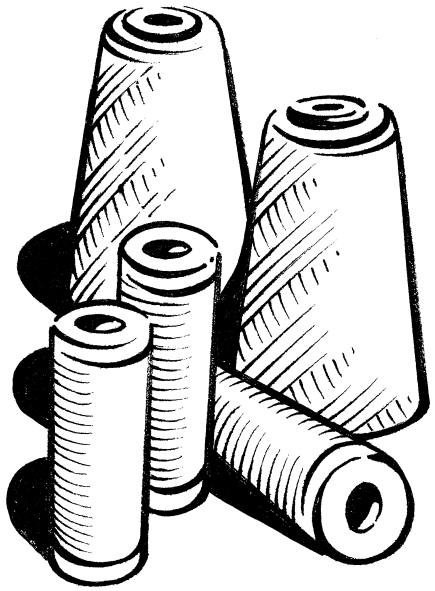
Several factors such as the fiber, twist, ply, finish, and size of thread must be considered for use with today's fabrics for fine stitches.

Staple – refers to the length of fibers used to twist together to form a single ply. Domestic thread fiber lengths are usually 1½" to 2½" long while European threads use 5½" to 6½" lengths.

Ply – number of strands twisted together to make a single thread.

Roll – the tendency of thread to roll to the right or left during stitching, causing the stitch to appear slightly crooked. Poor quality threads are more likely to roll.

Twist – the crimping of fibers which causes them to interlock firmly into a single ply. Thread should not untwist during stitching. This will cause skipped stitches, thread breakage, crooked stitches, and weak spots in seams.



Right twist – most American threads are twisted to the right, causing some rolling. This gives average stitch quality.

Left twist – Most commercial and imported threads are twisted to the left, giving better than average stitch quality. Left twist resists rolling and makes a larger loop for the hook point to enter, reducing skipped stitches.

Notes

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Thread

Wearable art embellishment has necessitated the creation and marketing of many new thread types, such as rayons and metallics. Threads made in West Germany are left twist threads; Mettler and Isacord threads are also left twist. To test the twist of a thread: while holding the spool in the left hand, roll the strand of thread towards you with one thumb. Left twist will tighten, right twist will loosen.

Fiber – refers to the type of material used to produce the thread. Some commonly used threads:

- *Polyester 2 ply* – such as Metrosene 100. Good for clothing construction on man-made, natural or blended fabrics. Will tolerate heat up to 450° Fahrenheit.
- *Polyester 3 ply cordonnet* – topstitching or buttonhole twist – such as Mettler 30/3.
- *Cotton 2 ply* – such as Mettler 60/2 – excellent for French Machine Sewing, delicate machine embroidery, piecing and darning.
- *Cotton 2 ply* – such as Mettler 30/2 – loose twist for a soft, shiny look in machine embroidery, applique, and buttonholes.
- *Cotton 3 ply* – such as Mettler 50/3 – excellent for clothing construction on natural fibers. Tighter twist than embroidery cotton thread and less puckering on problem fabrics. Cotton thread stretches less than polyester.
- *Rayon* – a lustrous embroidery thread. Weaker than cotton, it is used for decorative work only.
- *Polyester 2 ply embroidery thread* – Isacord and Polysheen embroidery thread – excellent for embroidery, very abrasion resistant.

Storage of Thread

Thread does wear out and should be stored with care to keep it usable as long as possible. Extreme moisture may cause thread to swell while very dry conditions can leave it dry and brittle as it ages. Store thread in a covered container (thread box with a lid, cabinet with doors, or drawers that close) if possible to keep it dust-free.

Be wary of old spools of thread recovered from Grandma's sewing box. The fibers may be so weak and brittle that even if it sews into a seam, it may be so unstable that the garment or project will not hold together and the life of the project may be considerably shortened.

Notes

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Stabilizers & Interfacings

Tear-Away Stabilizer: The most commonly used type of stabilizer, designed to provide temporary support of stitching. Placed on the wrong side of the project and carefully pulled away once stitching is complete. Available in three weights – heavy, medium, and light. Multiple lightweight layers may be preferable to one heavy layer, as they are easier to remove. One version, Hydro-Stick has adhesive on one side and is applied with water for a secure bond and a high degree of stabilization for very dense and/or intricate designs.

Cut-Away Stabilizer: The most widely used stabilizer in the commercial market. Does not break down under dense stitching, due to the high fiber – rather than paper – content. Excess stabilizer is trimmed away after stitching (leave approximately ¼" of stabilizer around the edges). Hydro-Stick is also available in a cut-away version.

Web/Poly-Mesh Type Stabilizer: A specially formulated cut-away stabilizer developed for use behind lightweight or light-colored fabrics. Available in a fusible or non-fusible version.

Water-Soluble Stabilizer: Used for backing and topping, in single or multiple layers. Available in two weights. Excellent for decorative stitching and cutwork as there are no remnants of stabilizer left after removal (it dissolves). As a topping, it keeps stitches from being lost in heavily napped fabrics such as velvet and corduroy. Examples: Aqua Film, Badge Master.

Iron-On Stabilizer: A non-woven product similar to paper. Perfect for knits, this tear-away stabilizer is temporarily bonded to the fabric, inhibiting the tendency of the material to stretch.

Heat Removable Stabilizer: Woven from strands of fiber that are burned away at a low temperature, heat removable stabilizers are perfect for heirloom stitchery.

Liquid/Spray Stabilizers: Wonderful for sheer fabrics from which all stabilizer must be removed after stitching, these products are painted or sprayed onto the fabric. Several light applications of spray stabilizer are preferable to one heavy application.

Notes

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Stabilizers & Interfacings

Knit Fusible Interfacing: A very lightweight, flexible interfacing sometimes used as a stabilizer, it gives permanent support (as an underlining) to a fabric. Perfect for plackets, garment edges, under buttonholes, and anywhere extra body and stability are needed. Can also be used to stabilize decorative stitch work.

Woven Fusible Interfacing: This interfacing is sometimes used as a stabilizer and is generally cut on the bias to provide better drape. Gives a firmer hand or finish than knit or non-woven interfacings. Used for lapels, facings, and anywhere a great deal of extra body and stability are needed.

Sewing and Craft Sprays

202 Spray and Fix: This temporary adhesive is a "light version of 505 temporary spray adhesive. Good for holding tissue paper pattern pieces in place, letting you reposition them as needed. 202 can be used on paper patterns or templates of any kind and will adhere to most surfaces including wood.

404 Spray and Fix: A repositionable craft adhesive, this spray turns fabric or papers into "sticky notes". The adhesive will not transfer onto other surfaces. Acid-free, it can be applied to the back of photographs and is great for scrap-bookers and crafters.

505 Temporary Spray Adhesive: Great for basting or holding two layers of fabric and/or batting together, this adhesive will bond for up to 6 months. The "stickiness" will dissipate when exposed to air and will be completely gone within 24-48 hours. Works well for securing "hard-to-hoop" items such as collars and cuffs to hooped stabilizer for embroidering.

606 Fusible Spray: A permanent spray, 606 is used to make any fabric or stabilizer a fusible. Apply to the wrong side of the fabric to be fused, using several light coats, rather than one heavy coating. The more coats used, the stronger the bond will be.

Fabric Shield: Used to protect fabrics from dust, dirt, grease, and oil, this spray is water repellent and can be laundered and dry-cleaned.

Notes

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Straight Stitch/Seaming

Fabric ..... 2 pieces firm, woven fabric, each 4” x 6”
Needle ..... 90/14 Universal
Thread .....30 wt. cotton embroidery, contrasting color
Presser Foot ..... Reverse Pattern Foot #1/1C
Stitch ..... straight
Needle Position ..... center

Find the 5/8” engraved guide line on the stitch plate.

Place fabric pieces right sides together and align them with the engraved guide line.

Sew a 5/8” seam on one 6” edge.

Attach the Quilting/Seam Guide to the foot and sew a 2” seam on the other side.

Notes

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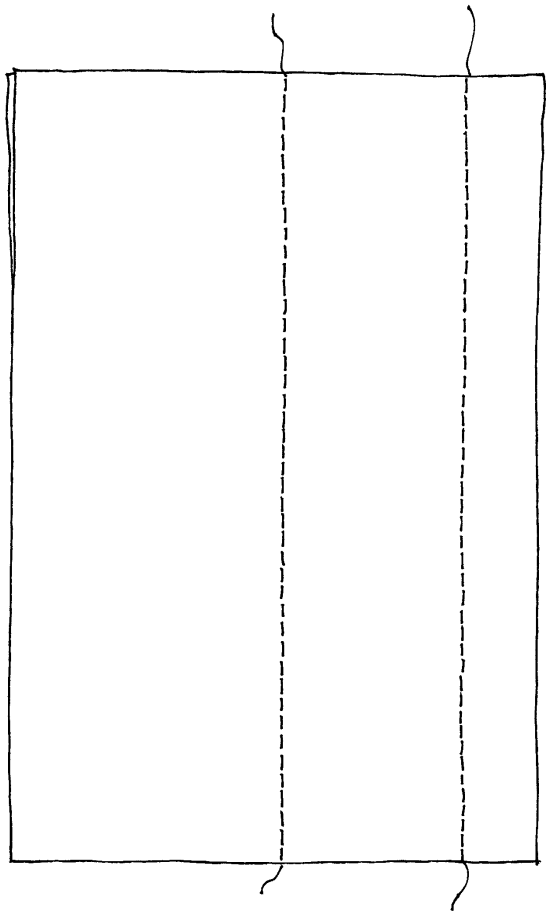
Straight Stitch/Seaming Sample



	1008	125	135PE	145	153QE	155	165	185	200
Straight Stitch	1	1	1	1	1	1	1	1	1

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Needle Position

Fabric ..... firm, woven fabric 4” x 6”
Stabilizer ..... lightweight tear-away, 4” x 6”
Needle ..... 90/14 Universal
Thread ..... 30 wt. cotton embroidery, contrasting color
Presser Foot ..... Reverse Pattern Foot #1/1C
Stitch ..... straight
Needle Position ..... as noted

Fold fabric in half to 2” x 6”.

Select Straight Stitch. Engage the Needle Down function if available.

Position the fold of the fabric on the 1” mark on the right side of the stitch plate.

Sew ½” (approximately five stitches). Stop with the needle down in the fabric.

Move the needle one position to the left. Stitch ½”. Stop with needle down in the fabric. Repeat this until all left needle positions have been stitched.

Leaving the fabric under the foot – move the needle position back to center.

Move needle one position to the right. Stitch ½”. Stop with needle down in the fabric. Repeat this until all right needle positions have been stitched.

Note: If your machine has a Pattern Repeat function, select it 4x and sew each needle position until the machine automatically stops.

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Notes

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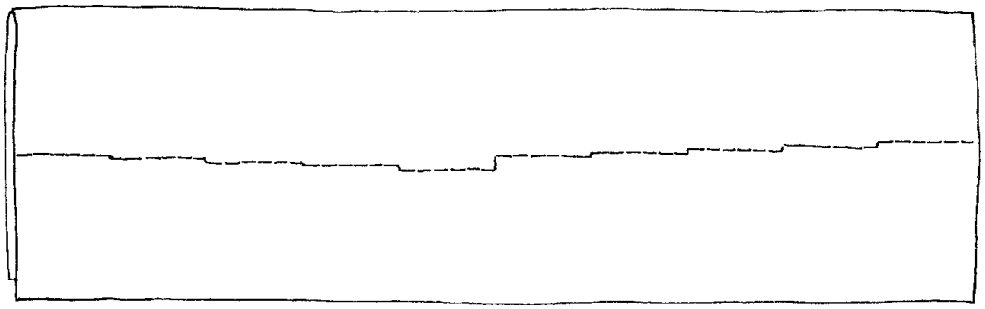
Needle Position Sample



	1008	125	135PE	145	153QE	155	165	185	200
Straight Stitch	1	1	1	1	1	1	1	1	1
Needle Positions	5	9	9	9	9	9	11	11	11
Pattern Repeat Function	--	--	--	--	--	--	yes	yes	yes

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Securing Stitches

Fabric ..... 4 pieces firm, woven fabric, each 4" x 6"
Needle ..... 90/14 Universal
Thread ..... 30 wt. cotton embroidery, contrasting color
Presser Foot ..... Reverse Pattern Foot #1 or #1C
Additional Accessories ..... Quilting/Seam Guide
..... Seam Guide with Rulers
Stitches ..... straight
..... securing stitch and/or quilters securing stitch
..... feather Stitch
Needle Position ..... center

Row 1 - Straight Stitch:
Find the 5/8" guide line on the stitch plate. Fold one piece of fabric in half lengthwise. Place it under the presser foot; align one 6" edge with the 5/8" guide line.

Select straight stitch. Sew a few stitches forward, then press the Quick Reverse button; sew a few stitches backward; machine will sew in reverse until the Quick Reverse button is released. Continue stitching the seam; secure the end in the same way.

Row 2 - Securing Stitch or *Quilter's Securing Stitch:*
Attach the Quilting/Seam Guide to the foot. Set the guide 5/8" from the center needle position. Fold another piece of fabric; align the raw edges with the guide.

Select the Securing Stitch. Begin to sew; the machine will automatically secure the stitching, then continue stitching forward. At the end of the seam, press and release the Quick Reverse button. The machine will automatically secure the stitching, then stop.

Sample 3 - Securing Function:
Place remaining two fabric pieces wrong sides together. Attach one of the Seam Guides with Rulers to the presser foot. Set the guide 2" from the needle; select a feather stitch. Engage the Securing Function, if available; the machine will automatically secure the stitches at the beginning and end of every pattern repeat. Turn the Securing function off after the first stitch, then re-engage when approaching the end.

Notes

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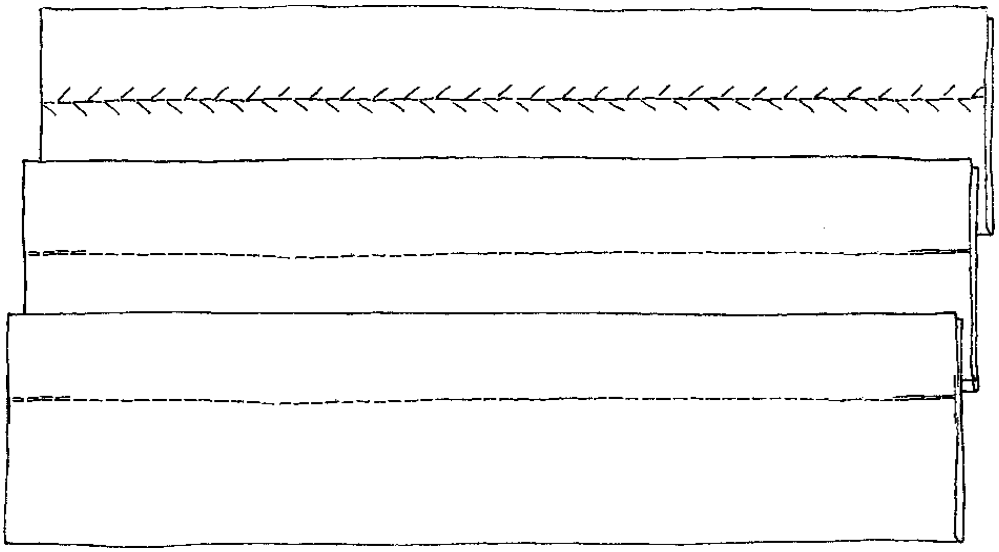
Securing Stitches Sample



	1008	125	135PE	145	153QE	155	165	185	200
Securing and/or Quilters Securing Stitch	--/--	5/--	--/5	5/--	5/--	5/73	5/324	5/324	5/324
Feather Stitch	--	--	22	23	26	66	332	332	332
Securing Function	--	--	--	--	yes	yes	yes	yes	yes

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Stitching Corners

Fabric	2 pieces firm, woven fabric,each 4” x 6”
Stabilizer	lightweight tear-away, 4” x 6”
Needle	90/14 Universal
Thread	30 wt. cotton embroidery, contrasting color
Presser Foot	Reverse Pattern Foot #1/1C
Stitch	straight
Needle Position	center

Select the Straight Stitch.

Place fabric pieces right sides together.

Place the fabric under the foot with the top edge even with the horizontal line behind the foot. The right edge should be even with the 5/8” seam line.

Engage the Needle Down function, if available.

Sew until the bottom edge touches the horizontal line in front of the needle; stop.

Pivot, using the FHS (Free Hand System). Continue sewing until you come to the next corner and repeat the pivot.

Stitch three sides of this sample.

Note: For crisply turned corners, take two small stitches diagonally across the corner before completing the pivot.

Notes

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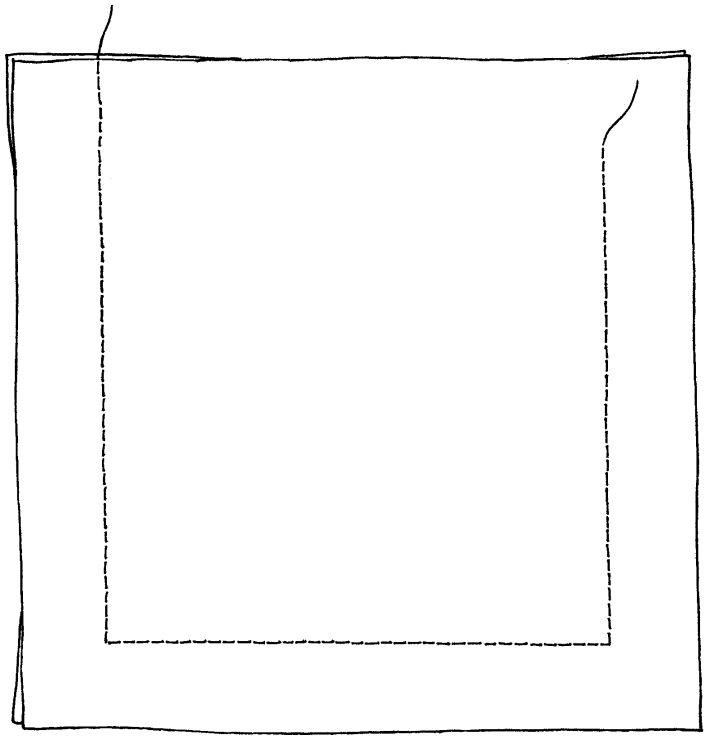
Stitching Corners Sample



	1008	125	135PE	145	153QE	155	165	185	200
Needle Down/Up Function	--	yes	yes	yes	yes	yes	yes	yes	yes
Freehand System	--	optional	optional	yes	yes	yes	yes	yes	yes

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Zigzag/Oversewing Edges

Fabric ..... firm, woven fabric, 6” x 8”
Needle ..... 90/14 Embroidery
Thread ..... 30 wt. cotton embroidery, contrasting color
Presser Foot ..... Reverse Pattern Foot #1 or #1C
Stitch ..... zigzag stitch
Needle Position ..... center

Select the Zigzag Stitch.

Finish one 6” edge using the following steps.

Guide edge of fabric under the middle of the presser foot.

The needle should go into the fabric on one stroke of the needle and over the edge on the next stroke.

Do not use too long a stitch or too wide a stitch; the edge should lie flat, not roll.

Match the weight of the thread to the weight of the fabric.

Trim and mount the sample.

Notes

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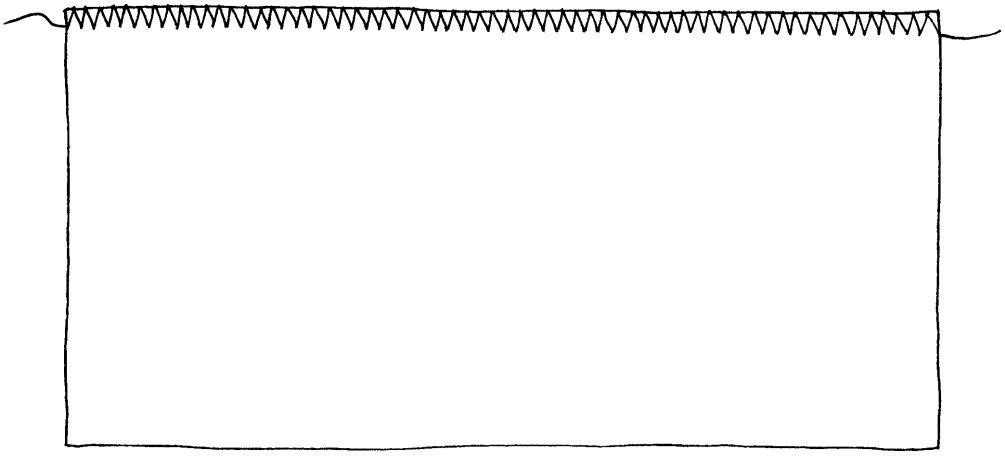
Zigzag/Oversewing Edges Sample



	1008	125	135PE	145	153QE	155	165	185	200
Zigzag Stitch	2	2	2	2	2	2	2	2	2

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Satin Stitching

Fabric ..... firm, woven fabric, 6” x 6”
Stabilizer ..... tear-away, 3” x 6”
Needle ..... 90/14 Embroidery
Thread ..... 30 wt. cotton embroidery, contrasting color
Presser Foot ..... Open Embroidery Foot #20 or #20C
..... ***or*** Embroidery Foot #6
Stitch ..... zigzag stitch
Needle Position ..... as indicated

Fold fabric in half to 3” x 6”. Use stabilizer as needed.

Select the Zigzag Stitch. Change the stitch length to satin stitch and the stitch width to the widest possible.

Thread the bobbin thread through the eye in the bobbin case finger if using a machine with a CB hook system. For machines with a rotary system, loosen the needle tension slightly.

Move the needle position to the center. Sew about 1”, then, while continuing to sew, turn the stitch width knob to taper the stitch to 0mm. Then widen the stitch back to maximum. Repeat until stitching reaches end of the fabric.

Move the needle position all the way to the left. Position the raw edge of the fabric on the 3/8” line (on the right side of the stitch plate). Stitch, tapering and widening the satin stitch while sewing.

Move the needle position all the way to the right. Position the fold of the fabric on the 3/8” line (on the left side of the stitch plate). Stitch along the right side of the fabric, tapering and widening the stitching while sewing.

*Note: A preprogrammed satin stitch is available on the **artista** 200; stitch #354 in the Quilt Stitch menu.*

Notes

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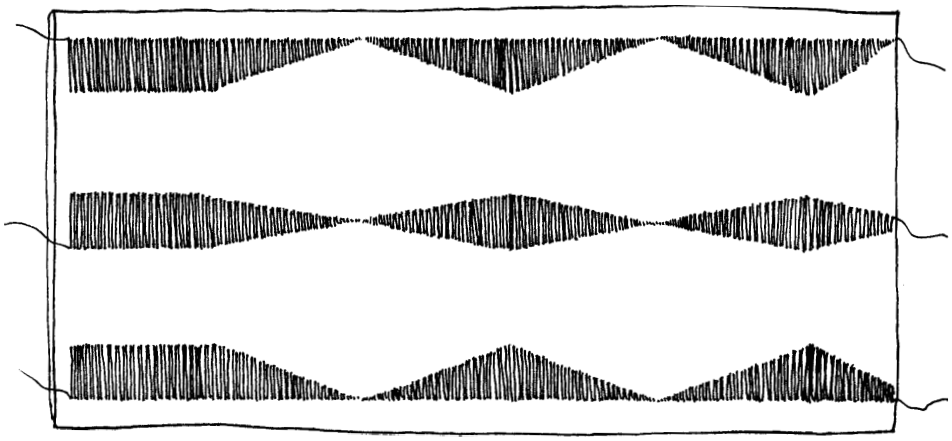
Satin Stitching Sample



	1008	125	135PE	145	153QE	155	165	185	200
Zigzag Stitch	2	2	2	2	2	2	2	2	2
Bobbin Hook System (Oscillating/CB or Rotary/R)	CB	CB	CB	CB	CB	CB	CB	R	R

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Topstitching/Edgestitching

Fabric ..... firm, woven fabric, 2 pieces, 2” x 6”each
Needle ..... 90/14 Embroidery
Thread ..... 30 wt. cotton embroidery, contrasting color
Presser Foot ..... Edgestitch Foot #10 or #10C
Stitch ..... triple straight stitch
Needle Position ..... as indicated

Place fabrics right sides together. Stitch together with a 5/8” seam along one 6” side. Finger-press the seam open.

From the right side, position the blade of Foot #10/10C in the ditch of the seam.

Select the triple straight stitch. Move the needle position two places to the left.

Stitch the length of the seam.

If available, select the Long Stitch function. If not available, increase the stitch length to 5mm.

Move the needle all the way to the right.

Starting at the top of the seam again, stitch the length of the seam.

Notes

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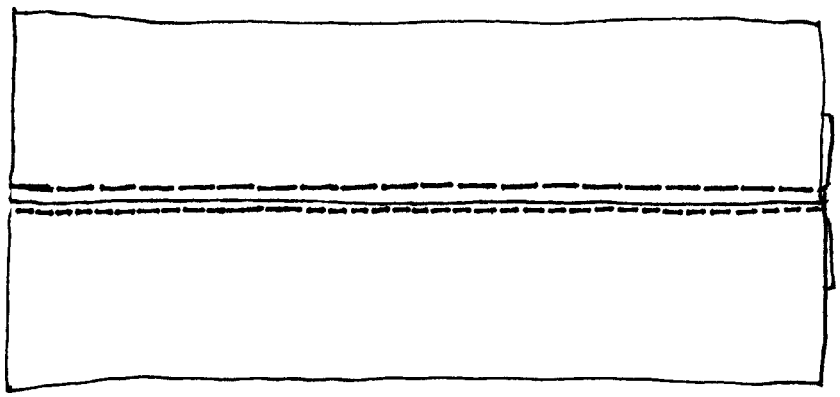
Topstitching/Edgestitching Sample



	1008	125	135PE	145	153QE	155	165	185	200
Triple Straight Stitch	9	6	6	6	6	6	6	6	6
Needle Positions	5	9	9	9	9	9	11	11	11
Long Stitch Function	--	--	--	--	--	--	yes	yes	yes

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Basting

Fabric ..... firm, woven fabric, 2 pieces, 4” x 6” each
Needle ..... 90/14 Embroidery
Thread ..... 30 wt. cotton embroidery, contrasting color
Presser Foot ..... Reverse Pattern Foot #1/1C
Stitches ..... straight
..... basting
Needle Position ..... center

Place fabric pieces right sides together.

Using a straight stitch with a length of 5mm, baste a 5/8” seam along one side of the fabric.

Using the preprogrammed basting stitch, if available, baste another 5/8” seam along the opposite side of the fabric.

Using the same preprogrammed basting stitch, engage the Long Stitch function, if available. Baste another line through the center of the fabric between the two previously stitched lines.

Notes

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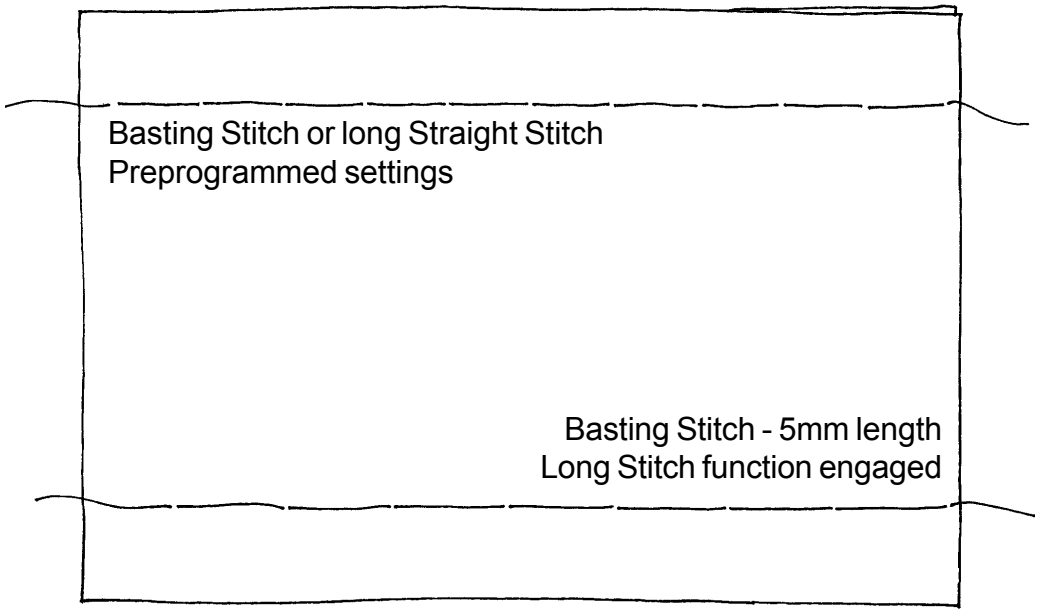
Basting Sample



	1008	125	135PE	145	153QE	155	165	185	200
Basting Stitch	--	--	14	15	--	--	21	21	21
Long Stitch Function	--	--	--	--	--	--	yes	yes	yes

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Temporary Altered Stitch Memory

Fabric ..... firm, woven fabric, 6” x 6”
Stabilizer ..... tear-away, 3” x 6”
Needle ..... 90/14 Embroidery
Thread ..... 30 wt. cotton embroidery, contrasting color
Presser Foot ..... Reverse Pattern Foot #1 or #1C
Stitch ..... heart
Needle Position ..... center

Fold fabric to 3” x 6”. Insert stabilizer between layers.

Select the heart or other pattern stitch. Stitch two patterns and stop. *Note: If available, select the Pattern Repeat function 2x. Stitch; the machine will automatically stop after two repeats.*

Reduce the stitch width to 4mm (6mm for the ***artista*** 185 and 200). Stitch two more repeats.

Select the Vertical Mirror Image function if available. Stitch two more repeats.

Select the zigzag stitch from the Satin Stitching exercise (pages 22-23). *Note: the sewing computer (**activa** 125/135PE/145, **virtuosa** 153QE/155, and **artista** 165/185/200) remembered all the changes made to the stitch - length, width, and needle position.*

Select the heart stitch again. Sew. *Note: the sewing computer remembered all the changes made to the heart stitch, as well as the zigzag.*

*Note: In addition to stitch width, length, and needle position, the **artista** 200 remembers the Mirror Image and Pattern Repeat functions. The **artista** 200 Temporary Altered Memory will be explored further in Class 6, **artista** Extras.*

Return machine to basic (default) settings.

Notes

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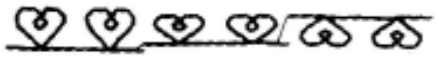
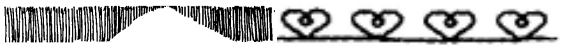
Temporary Altered Stitch Memory Sample





( )

artista 200 only

	1008	125	135PE	145	153QE	155	165	185	200
Heart Stitch	--	--	25	39/49	19	78	712	712	712
Pattern End	--	--	yes	yes	yes	yes	yes	yes	yes
Mirror Image	--	--	--	yes	yes	yes	yes	yes	yes
Pattern Extend	--	--	--	--	--	--	yes	yes	yes
Temporary Stitch Memory	--	yes	yes	yes	yes	yes	yes	yes	yes

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Class 1
Product Reference List
General Information

- ❑ *Feet-ures,* Volumes 1 and 2
- ❑ Edgestitch Foot #10 ***or***
- ❑ Edgestitch Foot #10C
- ❑ Bobbin holders for accessory cabinets
- ❑ Foot holders for accessory cabinets
- ❑ BERNINA® Deluxe Accessory Box
- ❑ BERNINA® Tapestry Accessory Bag
- ❑ BERNINA® Thread Storage Box
- ❑ Bobbins
- ❑ Spool Bobbin Holders
- ❑ Magnetic Pin Cushion
- ❑ Magnetic Bobbin Holder
- ❑ Straight Stitch Plate
- ❑ Seam Sealant
- ❑ BERNINA® Thread Stand
- ❑ Supplementary Thread Guide
- ❑ Multi-spool thread holder
- ❑ Left guide
- ❑ Seam Guide with Rulers (right and left)
- ❑ Set of Magnifying Glasses
- ❑ BERNINA® Suitcase System
- ❑ OTT Lamps

Scissors

- ❑ BERNINA® Dressmaker's shears
- ❑ BERNINA® Trimming scissors
- ❑ Applique Scissors

Needles

❑ Universal	60/70/80/90/100/110/120
❑ Double	2.0/2.5/3.0/4.0/6.0/8.0
❑ Wing	Single/Double
❑ Embroidery	75/90
❑ Quilting	80/90
❑ Stretch	75/90
❑ Ballpoint	60/70/80/90/100/110/120

OESD Stabilizers

- ❑ Aqua Film
- ❑ Tear-away
- ❑ Cut-away
- ❑ Poly Mesh
- ❑ Fusible Poly Mesh
- ❑ Hydro Stick
- ❑ 202 Spray and Fix
- ❑ 404 Spray and Fix
- ❑ 505 Temporary Spray Adhesive
- ❑ 606 Spray and Fix
- ❑ Fabric Shield

Thread

- ❑ Isacord Polyester
- ❑ YLI (variety)
- ❑ Mettler Cotton Embroidery
- ❑ Mettler Metrosene Polyester
- ❑ Mettler Silk-finish Cotton

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Class 2
Practical Stitching
Class Overview

Stretch Seam Samples

1 Zigzag Seam
2 Super Stretch Seam
3 Vari-Overlock Seam
4 Flat Joining Seam

Hem & Edging Samples

5 Blind Hem
6 Handpicked Hem
7 Double Needle Hem
8 Jeans Hem
9 Shell Edge Hem
10 Rolled and Whipped Edge

This class is formatted for owners of the following models of BERNINA® sewing machines:

- ***classic*** 1008
- ***activa*** 125
- ***activa*** 135PE
- ***activa*** 145
- ***virtuosa*** 153QE
- ***virtuosa*** 155 “my choice”
- ***artista*** 165
- ***artista*** 185
- ***artista*** 200

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Zigzag Seam

Fabric ..... firm knit fabric 4” x 6”
Needle ..... 80/12 Universal
Thread ..... all-purpose
Presser Foot ..... Reverse Pattern Foot #1/1C
Stitch ..... zigzag
Needle Position ..... center

Cut the fabric piece in half lengthwise, creating two pieces, 2” x 6” each.

Select the Zigzag Stitch – SW 1.0mm and SL 1.5mm.

Position the fabric to produce a $^{5}/_{8}$” seam down one side.

Stitch the seam.

Clip one seam allowance in the middle.

Press one part of the seam open and leave the other half closed so the stitch is visible.

Trim and mount the sample.

Notes

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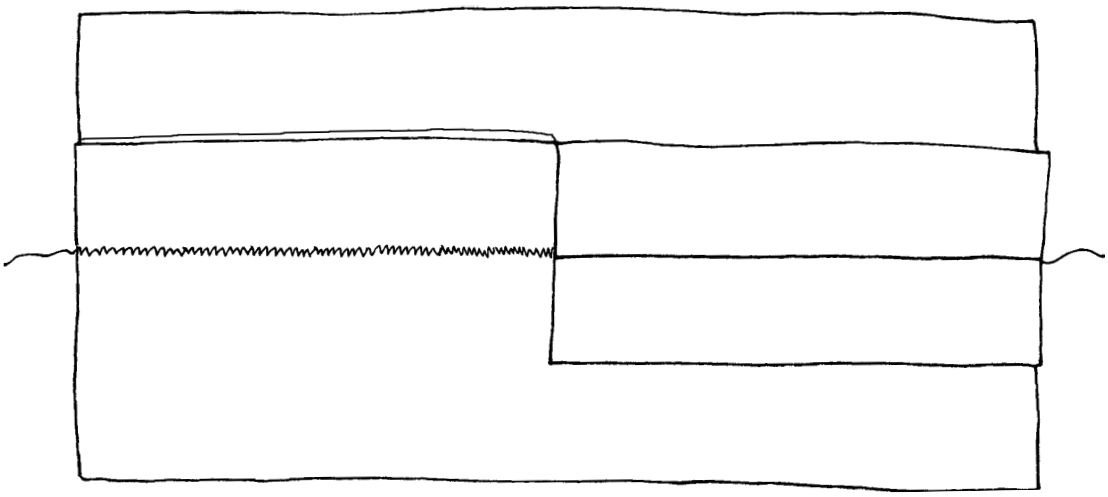
Zigzag Seam Sample



	1008	125	135PE	145	153QE	155	165	185	200
Zigzag Stitch	2	2	2	2	2	2	2	2	2

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Super Stretch Seam

Fabric ..... heavy double knit, 4" x 6"
Needle ..... 80/12 Universal
Thread ..... all-purpose
Presser Foot ..... Reverse Pattern Foot #1/1C
Stitch ..... stretch
Needle Position ..... center

Cut fabric in half lengthwise creating two pieces, 2" x 6" each.

Select the Stretch Stitch.

Position the fabric to produce a 5/8" seam down one side.

Stitch the seam; lighten the presser foot pressure if fabric stretches.

Clip one seam allowance in the middle and press one part of the seam open.

Trim and mount the sample.

Note: This stitch is good for an open seam on all knit fabrics; works well for sportswear.

Notes

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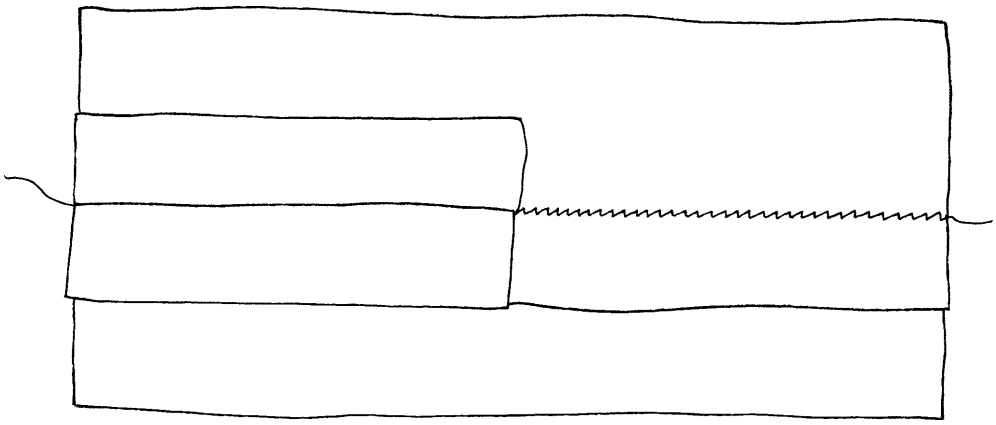
Super Stretch Seam Sample



	1008	125	135PE	145	153QE	155	165	185	200
Super Stretch Stitch	--	9	9	9	13	13	11	11	11
Presser Foot Pressure Control	--	–	–	–	yes	yes	yes	yes	yes

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Vari-Overlock Seam

Fabric ..... cotton interlock 4” x 6”
ribbing, 2” x 6”
Needle ..... 80/12 Universal
Thread ..... all-purpose
Presser Foot ..... Overlock Foot #2/2A
Stitch ..... vari-overlock
Needle Position ..... center

Cut an inside curve in one corner of the fabric to simulate a neckline.

Select the Vari-Overlock Stitch.

If available, engage the Needle Down function.

Place folded ribbing along the curved edge of the fabric (ribbing and fabric, right sides together).

Guide the raw edges of the fabric under the pin of the foot and stitch; stitch length and width can be adjusted, if needed. Use the FHS (Free Hand System) to maneuver the curve and adjust the fabrics as needed.

Trim the sample and mount as shown.

Notes

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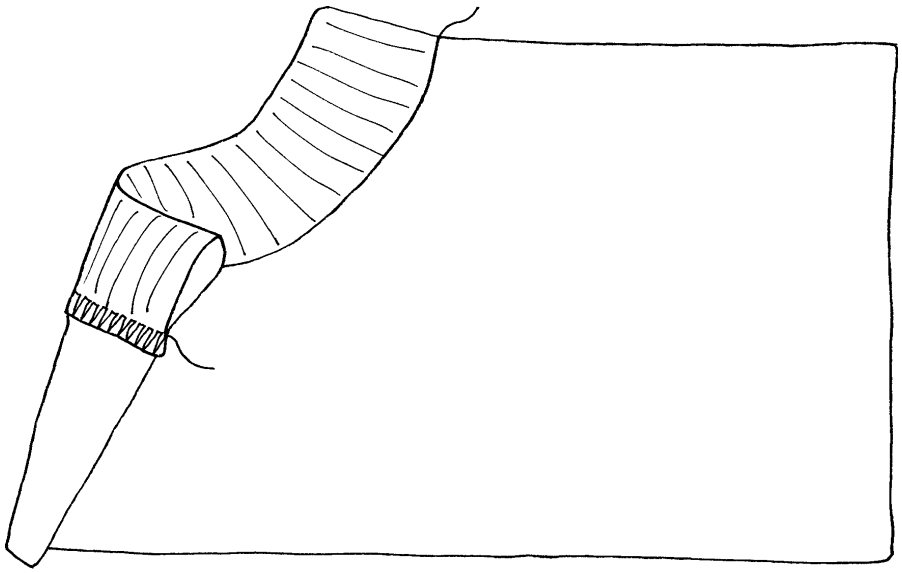
Vari-Overlock Seam Sample



	1008	125	135PE	145	153QE	155	165	185	200
Vari-Overlock Stitch	3	3	3	3	3	3	3	3	3
Needle Up/Down	--	yes	yes	yes	yes	yes	yes	yes	yes
Freehand System	--	optional	optional	yes	yes	yes	yes	yes	yes

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Flat Joining Seam

Fabric ..... 2 pieces terry cloth, 2" x 6" each
Needle ..... 90/14 Universal
Thread ..... all-purpose
Presser Foot ..... Reverse Pattern Foot #1C ***or***
..... Clear Foot #34/34C
Stitches ..... stretch overlock or towelling stitch
Needle Position ..... center

Select the Stretch Overlock stitch.

Cut a 5/8" seam allowance off one piece of fabric along the long edge.

Mark a line on the other piece of fabric, 5/8" from one long edge. This will be the right-hand piece of fabric.

Overlap the fabric edges left over right, aligning the left raw edge with the drawn line on the right-hand piece.

Stitch along the raw edge. Turn the fabric over and stitch along the remaining raw edge.

NOTE: *This is a great seam technique to use on bulky fabrics such as terry cloth.*

Notes

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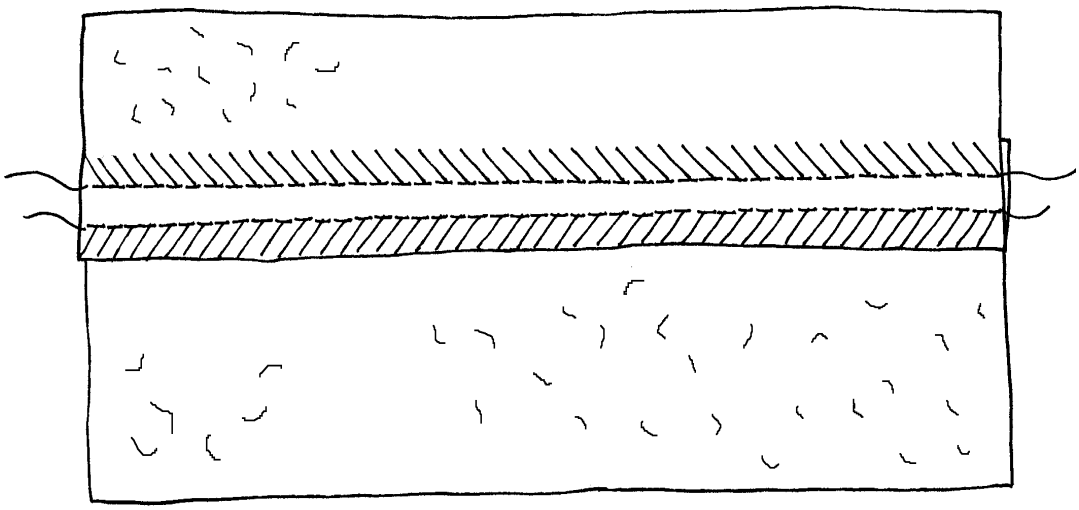
Flat Joining Seam Sample



	1008	125	135PE	145	153QE	155	165	185	200
Stretch Overlock Stitch	11	--	--	--	16	18	13	13	13

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Blind Hem

Fabric .....heavy flannel, 6" x 7"
Needle ..... 80/12 Universal
Thread ..... 60 weight cotton embroidery thread
Presser Foot ..... Reverse Pattern Foot #1C ***and***
.....Blind Hem Foot #5
Stitch .....zigzag
..... blindstitch
Needle Position ..... as needed

Finish one 6" edge of the fabric by oversewing with a zigzag stitch (see pages 20-21).

Fold a 2" hem to the wrong side of the fabric and press.

Select the Basting Stitch (see pages 26-27) and attach Reverse Pattern Foot #1C.

Baste the hem in place, sewing about ¼" from the raw edge.

Select the Blindstitch and attach Blind Hem Foot #5.

Fold hem back to the right side over the basting line.

Sew on the extended hem allowance, keeping the folded edge next to the guide on the foot.

Adjust the stitch width if needed so that the needle barely stitches into the fold.

Mount the sample with the edges folded back as shown in the illustration.

Notes

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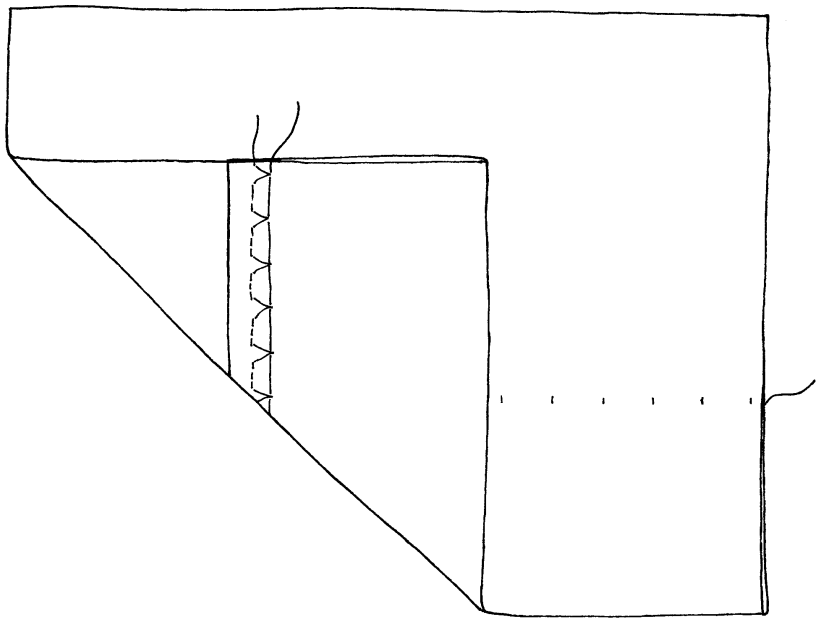
Blind Hem Sample



	1008	125	135PE	145	153QE	155	165	185	200
Zigzag Stitch	2	2	2	2	2	2	2	2	2
Basting Stitch	--	--	14	15	--	--	21	21	21
Blindstitch Stitch	3	7	7	7	7	7	9	9	9

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Handpicked Hem

Fabric ..... lightweight broadcloth, 6” x 7”
Needle ..... 80/12 Universal
Thread ..... 60 weight cotton embroidery thread
Presser Foot ..... Blind Hem Foot #5
Stitch ..... blindstitch
Needle Position ..... as needed

Turn up a 1” hem along one of the 6” edges and press.

Turn up the depth of the hem again and press.

Fold the entire hem toward the right side of the garment, so that the garment fold is almost even with the top edge of the hem. A scant 1/8” to 1/16” of hem edge should be visible. This will ensure that both folds are caught by the blind hem stitch.

Place the fabric under the foot just as a traditional blind hem would be placed.

Sew the hem with Blindstitch, making sure that the zigzag catches both folds while the straight stitch falls off the edge and stitches in air forming a chain along the upper hem edge.

Press and mount the sample.

Notes

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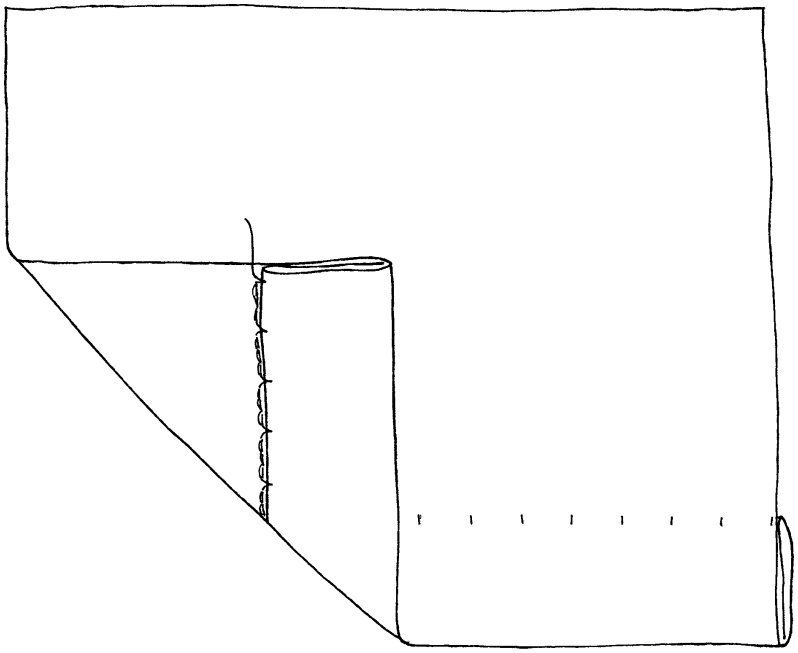
Handpicked Hem Sample



	1008	125	135PE	145	153QE	155	165	185	200
Blindstitch Stitch	3	7	7	7	7	7	9	9	9

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Double Needle Hem

Fabric ..... cotton interlock, 6" x 7"
Needle ..... Double, 3.0/80
Thread ..... all-purpose, 2 colors
Presser Foot ..... Reverse Pattern Foot #1/1C
Stitches ..... as needed
Needle Position ..... center

Turn up a 2" hem along one of the 6" edges and press.

Thread the needles with two different colors of thread.

If available, select the Double Needle Limitation or Security Program, and set for the 3.0mm Double Needle.

Note: *If these features are not available, check to be sure the needles will not strike the foot by turning the handwheel to "walk" the machine through the first stitch.*

Place the folded edge of the fabric along the 1" guideline on the right side of the stitch plate.

Select the straight stitch; sew half of the hem.

Select the suggested stitch or experiment with similar stitches; stitch the remainder of the seam.

Trim excess fabric from the wrong side of the hem.

Press and mount the sample.

Note: This is a good stitch to use when hemming T-shirts and pajamas. You can use other stitches with a double needle for other types of fabrics.

Notes

Manual Double Needle "Limitation"

To calculate the maximum stitch width which can be stitched by any Double needle, subtract the width of the needle from the maximum stitch width of your sewing machine.

For example:
5.5mm - 2.0mm = 3.5mm

Double Needle Threading

Use a supplementary spool holder and attach a supplementary thread guide to the machine. Thread as usual, placing one thread to the left of the tension disc and through the eye of the left needle; thread the other to the right of the tension disk and through the eye of the right needle.

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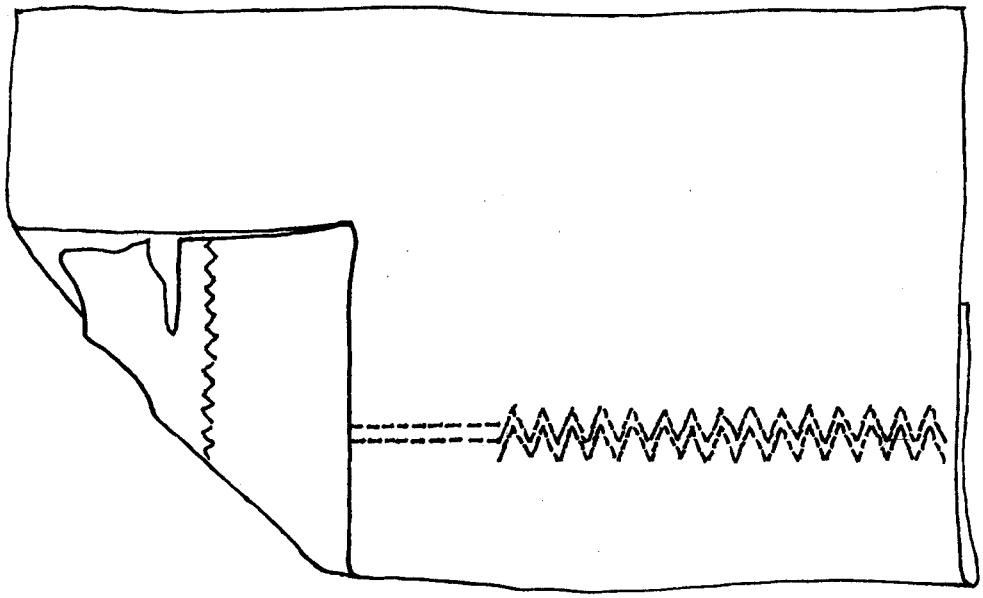
Double Needle Hem Sample



	1008	125	135PE	145	153QE	155	165	185	200
Straight Stitch	1	1	1	1	1	1	1	1	1
Suggested Stitch	7	4	4	4	4	4	16	16	16
Specialty Needle Function	--	--	--	--	--	--	limitation	limitation	security

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Jeans Hem

Fabric ..... denim, 5” x 7”
Needle ..... Jeans, 100/16 or 110/18
Thread ..... all-purpose
Presser Foot ..... Jeans Foot #8
Stitch ..... straight
Needle Position ..... center

Cut fabric in two pieces, 5” x 3½” each.

Insert a Jeans needle and select the Straight Stitch.

Sew a 5/8” seam with right sides together. Press the seam to one side.

Topstitch, using the edge of the foot along the seam as a guide, and stitching through the seam allowances.

Turn up the lower edge twice, about 3/8” each time.

Topstitch the hem in place, about 1/8” from the upper edge of the hem.

Press and mount the sample.

Hint: Sew toward the “gradual rise” of thick seams rather than toward the thickest part of the seam. Use the Height Compensation Tool to keep the presser foot level;

Notes

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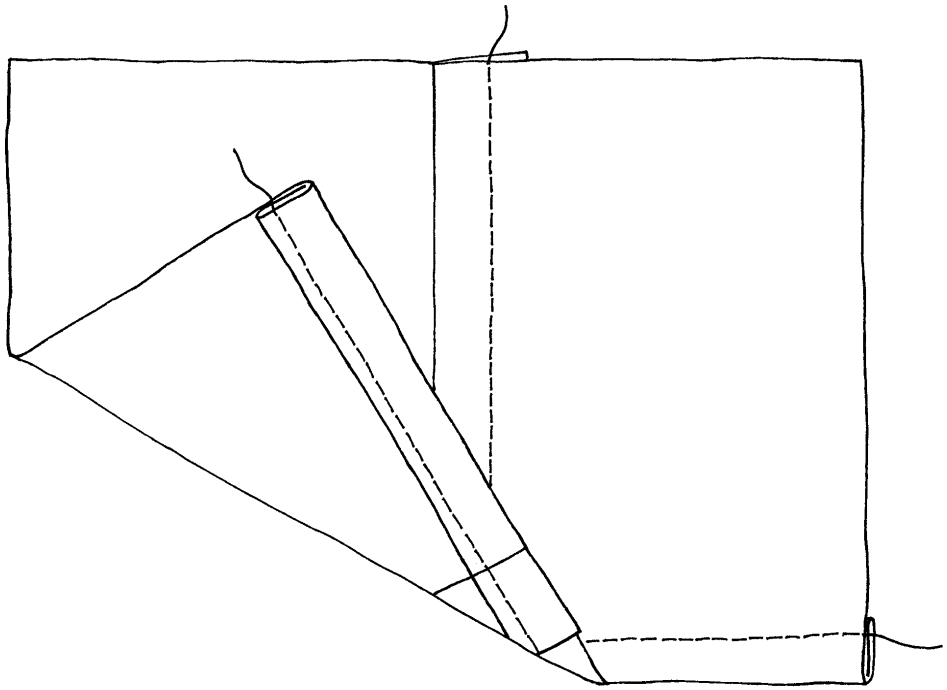
Jeans Hem Sample



	1008	125	135PE	145	153QE	155	165	185	200
Straight Stitch	1	1	1	1	1	1	1	1	1

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Shell Edge

Fabric ..... nylon tricot, 6” x 4”
Stabilizer ..... Aqua Film, 2” x 6”
Needle ..... 80/12 Universal
Thread ..... all-purpose
Presser Foot ..... Shell Hemmer Foot #69
Stitch ..... blindstitch (or overlock)
Needle Position ..... as needed

Select the Blindstitch (SW 4mm; leave SL at default setting). Engage the Vertical (Left/Right) Mirror Image function if available.
Alternative: Select the overlock stitch (SW 4mm, SL 3.5 mm).
Note: The longer the stitch length, the larger the shells.

Pull on the fabric a bit to see which way the edge curls. Be sure to hem “with the curl” rather than against it.

Place the Aqua Film under the edge of the hem, extending about 2” beyond the back edge of the fabric.

Twirl the stabilizer into the scroll of Foot #69 - the Aqua Film is stiff enough to easily move into the coil.

Begin stitching, using the Aqua Film to guide the fabric edge into the coil of Hemmer Foot #69.

If necessary, tighten the needle thread tension to create more defined scallops.

Trim and mount the sample.

Notes

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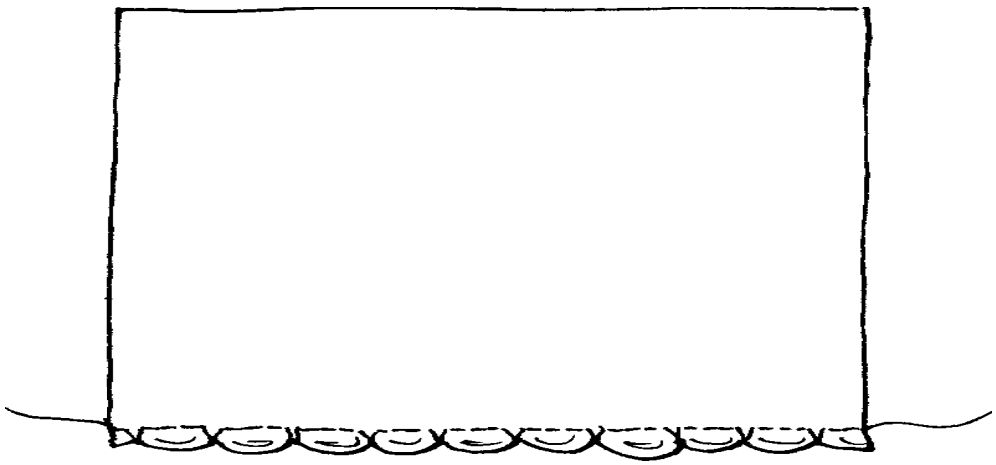
Shell Edge Sample



	1008	125	135PE	145	153QE	155	165	185	200
Blindstitch Stitch	3	7	7	7	7	7	9	9	9

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Rolled and Whipped Edge

Fabric ..... lightweight cotton, 6" x 4"
Needle ..... 80/12 Universal
Thread ..... all-purpose
Presser Foot ..... Standard Buttonhole Foot #3/3C
Stitch ..... zigzag
Needle Position ..... left

Clean one 6" lengthwise edge of "whiskers"

Select the Zigzag Stitch (SW 2.5mm and SL 1mm or less).

Loosen the top tension if necessary.

Place cut edge of fabric between the center and left toes of the presser foot and sew.

Notes:
- The left swing of the needle should be in the fabric, while the right swing falls off of the right edge of the fabric.
- As the needle swings left, it should roll the fabric into a tiny rolled edge.
- The finer the fabric, the finer the needle and thread used.

Trim and mount the sample.

This edge finish is used on a single thickness of fine lightweight fabrics. It is also use as a seam finish or as an edge on ruffles, hems etc.

Notes

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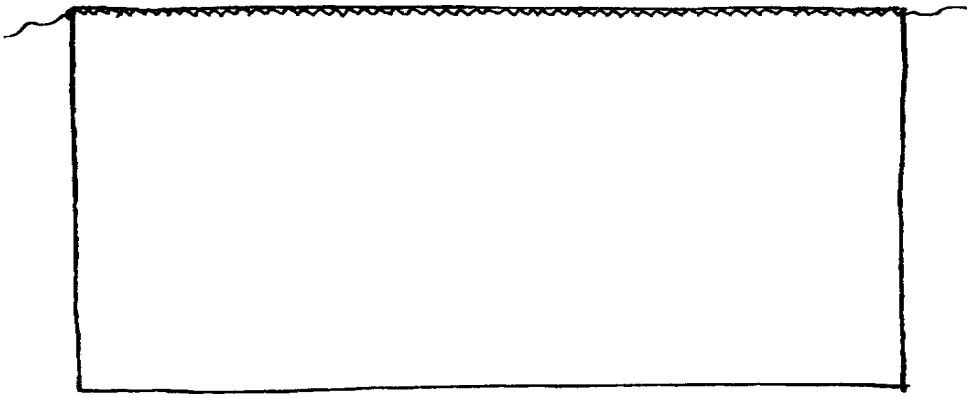
Rolled and Whipped Edge Sample



	1008	125	135PE	145	153QE	155	165	185	200
Zigzag Stitch	2	2	2	2	2	2	2	2	2

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Class 2
Product Reference List
Practical Stitching

- ❑ *Feet-ures,* Volumes 1 and 2
- ❑ Jeans Foot #8
- ❑ Edgestitch Foot #10 ***or***
- ❑ Edgestitch Foot #10C
- ❑ Clear Foot #34 ***or***
- ❑ Clear Foot #34C
- ❑ Shell Hemmer Foot #69
- ❑ Stitch Witchery - 5/8" roll
- ❑ Rotary Cutter
- ❑ Rotary Cutting Mat
- ❑ Clear, Gridded Ruler
- ❑ Aqua Film Stabilizer

Double Needles
- ❑ 2.0mm
- ❑ 2.5mm
- ❑ 3.0mm
- ❑ 4.0mm
- ❑ 6.0mm (artista 185 and 200 only)
- ❑ 8.0mm (artista 185 and 200 only)

Thread
- ❑ All-Purpose
- ❑ Mettler 60 weight Cotton Embroidery

Jeans Needles
- ❑ 90/14
- ❑ 100/16
- ❑ Double

Seam Pressing Tools
- ❑ BERNINA® Ironing System
- ❑ Seam Pressing Stick

Hem Gauges
- ❑ Curved Hem Ruler
- ❑ 6" Sewing Gauge

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Class 3
More Practical Stitching
Class Overview

Elastic Samples

1 Attaching Elastic
2 Turned Under Elastic

Buttonhole Styles

Buttonhole Presser Feet

Sizing Buttonholes

Buttonhole Samples

3 Manual Buttonhole/Corded Buttonhole
4 Automatic Buttonhole
5 Memory Buttonhole
6 Straight Stitch Buttonhole
7 Button Sew-on Stitch

Zipper Samples

8 Center Zipper
9 Invisible Zipper

Mending

10 Darning

This class is formatted for owners of the following models of BERNINA® sewing machines:

- ***classic*** 1008
- ***activa*** 125
- ***activa*** 135PE
- ***activa*** 145
- ***virtuosa*** 153QE
- ***virtuosa*** 155 “my choice”
- ***artista*** 165
- ***artista*** 185
- ***artista*** 200

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Elastic Edging

Fabric ..... nylon tricot, 6” x 4”
Notions ..... 9” of elastic lace
Needle ..... 80/12 Universal
Thread ..... all-purpose
Presser Foot ..... Reverse Pattern Foot #1/1C
Stitch ..... straight
Needle Position ..... center

Select the Running stitch (SW - 5mm, SL, 1mm).

Engage the Needle Down function, if available.

Position the elastic wrong side down on the right side of the tricot along one of the 6” edges.

Leave a tail of elastic at the back of the presser foot for a “handle”.

Position the elastic so the stitching is at the bottom edge of the elastic lace.

Stretch the elastic lace gently, as it is being sewn.

After stitching, trim the surplus tricot from the wrong side of the elastic lace, close to the stitching.

Mount the sample.

Notes

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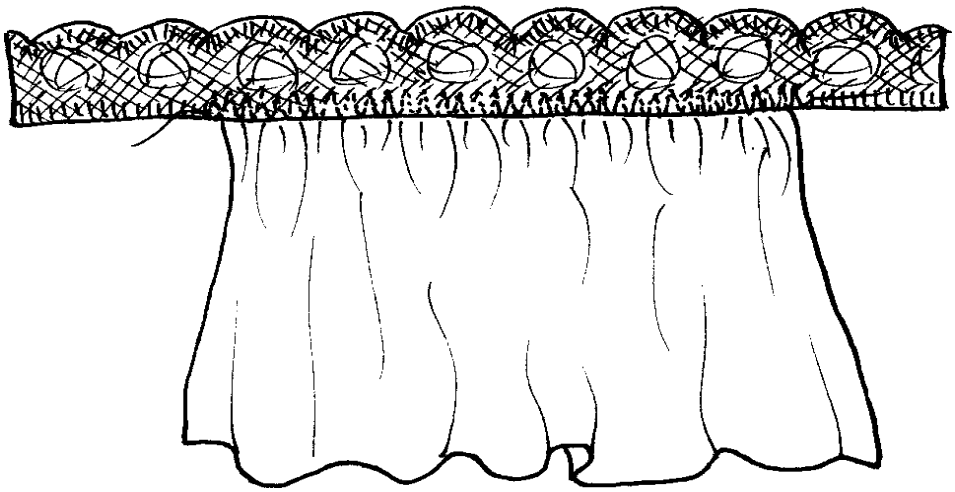
Elastic Edging Sample



	1008	125	135PE	145	153QE	155	165	185	200
Running Stitch #	7	4	4	4	4	4	4	4	4
Needle Down/Up Function	--	yes	yes	yes	yes	yes	yes	yes	yes

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Turned Under Elastic

Fabric ..... lycra (cotton or nylon), 6" x 5"
Notions ..... 9" of cotton swimwear elastic, ½" wide
Needle ..... 80/12 Universal
Thread ..... all-purpose
Presser Foot ..... Reverse Pattern Foot #1/1C
Stitch ..... straight
Needle Position ..... far right

Select the Zigzag Stitch #2 (SW 2mm and SL 2mm).

Select the far right needle position.

Position the elastic on the wrong side of the fabric, along one 6" edge.

Allow a 2" tail of elastic to extend beyond the fabric.

Using the tail of elastic at the back of the presser foot for a "handle", stretch the elastic a bit to simulate the leg of an exercise leotard or swimsuit.

Sew the elastic to the fabric keeping the edge of the elastic and the edge of the fabric together.

If stopping midway, use the Needle Down function to hold the elastic and fabric in place.

Fold the elastic to the wrong side and overstitch the elastic from the right side using a sewn-out zigzag, lycra, or running stitch with a length of 1mm.

If available, adjust the presser foot pressure and/or stitch length as needed if elastic stretches out as it is sewn.

Note: This same technique can be used for a turned waistband, using wider elastic.

Notes

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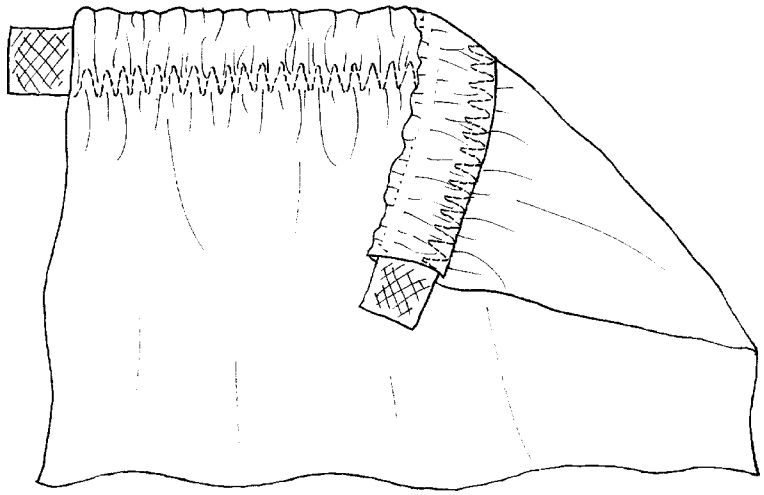
Turned Under Elastic Sample



	1008	125	135PE	145	153QE	155	165	185	200
Zigzag Stitch #	2	2	2	2	2	2	2	2	2
Needle Down/Up Function	--	yes	yes	yes	yes	yes	yes	yes	yes
Overstitch Options	7	4	16	16	4	4	16	16	16

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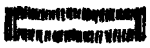
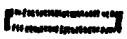
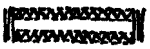
Buttonholes & Eyelets
Types & Uses



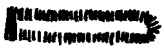
STANDARD BUTTONHOLE
Fine to medium weight fabrics. Blouses, shirts, trousers, bed linens.



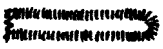
HEIRLOOM BUTTONHOLE
Fine to medium weight fabrics. Blouses, shirts, dresses, trousers, children's and baby clothes, doll clothes, heirloom work.



STRETCH BUTTONHOLE
All stretch fabrics made from cotton, wool, silk, and synthetic fibers.

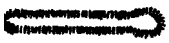


ROUND BUTTONHOLE WITH NORMAL BARTACK
Medium to heavy weight fabrics of all types. Clothing, jackets, coats, rainwear.



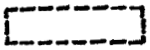
ROUND BUTTONHOLE WITH HORIZONTAL BARTACK
Medium to heavy weight fabrics of all types. Clothing, jackets, coats, rainwear.

KEYHOLE BUTTONHOLE WITH NORMAL BARTACK
Heavy weight, non-stretch fabrics. Jackets, coats, trousers, leisure wear.

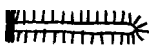


KEYHOLE BUTTONHOLE WITH POINTED BARTACK
Non-stretch firm fabric. Jackets, coats, leisure wear.

KEYHOLE BUTTONHOLE WITH HORIZONTAL BARTACK
Firm, non-stretch fabrics. jackets, coats, leisure wear.



STRAIGHT STITCH BUTTONHOLE
For prestitching buttonholes and pocket openings. For bound buttonholes & welt pockets.



HAND-LOOK BUTTONHOLE
For light- to medium-weight woven fabrics. Blouses, dresses, leisure wear, bedding, crafts

BUTTON SEW-ON PROGRAM
For flat buttons with 2 and 4 holes. For sewing on snaps, hooks, and charms.

NARROW ZIGZAG EYELET
Opening for cords and narrow ribbons/bands, other decorative work.

STRAIGHT STITCH EYELET
Opening for cords and narrow ribbons/bands, other decorative work.

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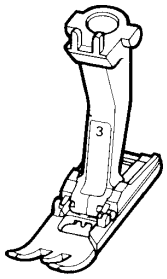
Buttonhole Feet

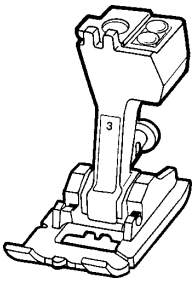
A number of buttonhole feet are available for BERNINA® sewing machines.
The descriptions below will help differentiate between the various feet.



Included with the 153QE, 165, 185 & 200

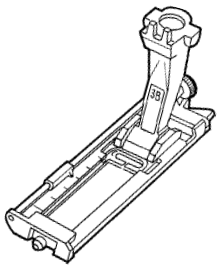
Snap-on version included with 1008 and 125

BUTTONHOLE FOOT #3
The standard 5mm buttonhole foot.
Works with any BERNINA® sewing machine.

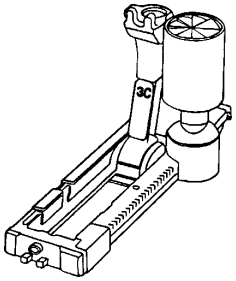


Included with the artista 185 and 200

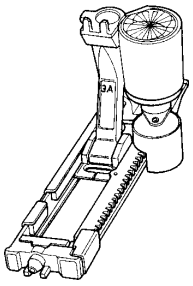
BUTTONHOLE FOOT #3C
The standard 9mm buttonhole foot.
"C" indicates a "coded" foot, with a light sensor that allows 9mm wide stitching.
Works with models 1630, ***artista*** 180, 185 & 200.



BUTTONHOLE FOOT WITH SLIDE #3B
A 5mm foot with a movable slide indicating buttonhole length, making it easy to stitch a series of identical buttonholes.
Works with any BERNINA® sewing machine.

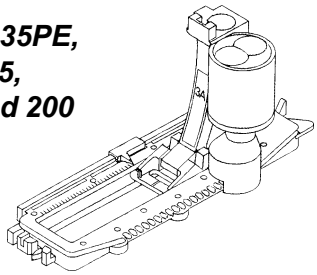


AUTOMATIC BUTTONHOLE FOOT #3C
The automatic buttonhole foot for machines with a 9mm feed system, indicated by the letter "C".
Works with models 1630 and ***artista*** 180.



AUTOMATIC BUTTONHOLE FOOT #3A
Automatic foot for machines with a 5mm and 9mm feed system. "A" indicates an "automatic" foot, with a light sensor for counting stitches.
Works with models 1130-1530 and 150-170QE.

Included with the 135PE, 145, 153QE, 155, artista 165, 185, and 200



AUTOMATIC BUTTONHOLE FOOT WITH SLIDE #3A/3C
Combines the handy slide measuring system of Buttonhole Foot #3B with the electronic sensor of the older Automatic Buttonhole Feet #3A and #3C.
Works with models 135 PE/145 and 150-200.

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Manual/Corded Buttonhole

Fabric ..... heavy flannel, 6" x 6"
Stabilizer ..... lightweight tear-away, 3" x 6"
Notions ..... 10" of gimp cord
Needle ..... 90/14 Universal
Thread ..... 30 wt. cotton embroidery, contrasting color
Presser Foot ..... Standard Buttonhole Foot #3/3C
Stitches ..... standard buttonhole
..... keyhole buttonhole
Needle Position ..... center

Fold the fabric in half to 3" x 6". Press; insert the stabilizer between the layers. Draw a line 1½" from the fold along the 6" length.

Mark three horizontal lines, running between the fold and the drawn line, spaced about 2" apart.

Standard Buttonhole
Select the standard buttonhole; select the man function from the function toolbar, if applicable.

Position the foot over the first short line, aligning the fold of the fabric with the 5/8" marking on the stitch plate, behind the foot.

Sew the first side of the buttonhole, engaging step #1. Stop at the drawn line and select step #2. Continue stitching remaining steps of buttonhole.

Corded Buttonhole
Fold the gimp cord in half and loop the middle around the center "toe" of the foot. Stitch the buttonhole on the second line as before, then carefully remove the fabric from under the foot. Pull the ends of the cord until the loop is pulled up under the buttonhole; trim the ends of the cord. If working on a knit fabric, knot the ends of the cord together before trimming.

Keyhole Buttonhole
Select the keyhole buttonhole if available; select the man function from the function toolbar, if applicable.

Place the third short line under the presser foot as before. Sew the keyhole buttonhole on the second marked line. Cut one buttonhole open. Trim and mount the sample.

Notes

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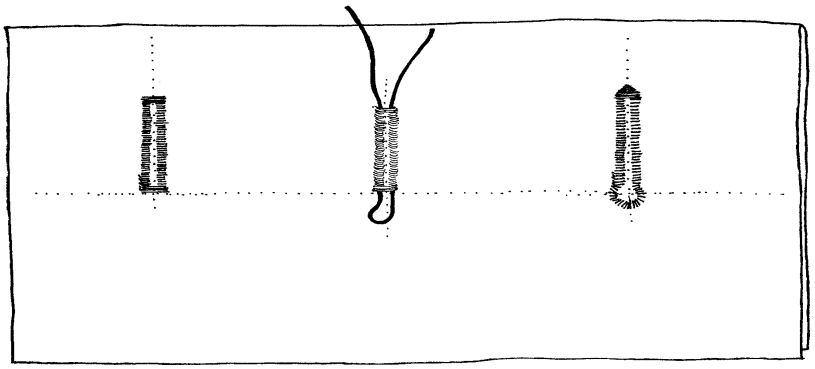
Manual/Corded Buttonhole Sample



	1008	125	135PE	145	153QE	155	165	185	200
Standard Buttonhole	dial	10	10	10	9	9	51	51	51
Keyhole Buttonhole	--	--	11	11	10	10	56	56	56
man (Manual) Buttonhole	yes	--	--	--	--	--	yes	yes	yes

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Automatic Buttonhole

Fabric	cotton interlock, 6” x 6”
	heavy flannel, 6” x 6”
	lightweight linen or batiste, 6” x 6” (***artista*** 185 & 200 only)
Stabilizer	3 pieces, 3” x 6” each
Needle	90/14 Universal
Thread	30 wt. cotton embroidery, contrasting color
Presser Foot	Automatic Buttonhole with Slide #3A
Stitch	stretch buttonhole
	standard buttonhole
	handlook buttonhole (***artista*** 185 & 200 only)
Needle Position	center

*Note: 1008 & **activa** 125 do not have an Automatic Buttonhole feature.*

Preparation
Fold each fabric in half to 3” x 6”. Press; insert stabilizer between layers.

Draw a line 1½” from the fold along the 6” length. Mark two horizontal lines, running between the fold and the drawn line, about 2” apart.

Sample #1 (cotton interlock)
Select the Stretch Buttonhole.

Position the foot over the first short line, aligning the fold of the fabric with the 5/8” marking behind the foot. Sew a buttonhole on the first line.

Stop at the horizontal line; press Quick Reverse button. The buttonhole length is programmed. When you start sewing again, the buttonhole is completed automatically.

Sew the programmed buttonhole on the second line.

Sample #2 (heavy flannel)
Select the Keyhole Buttonhole. Stitch a buttonhole on the first line

Sew the programmed buttonhole on the second line.
Note: To determine the buttonhole length, calculate the bead length only; the eye will sew accordingly.

Sample #3 (lightweight linen or batiste) (***artista*** 185 & 200 only)
Select the handlook buttonhole. Stitch a buttonhole on the first line.

Sew the programmed buttonhole on the second line.

Notes

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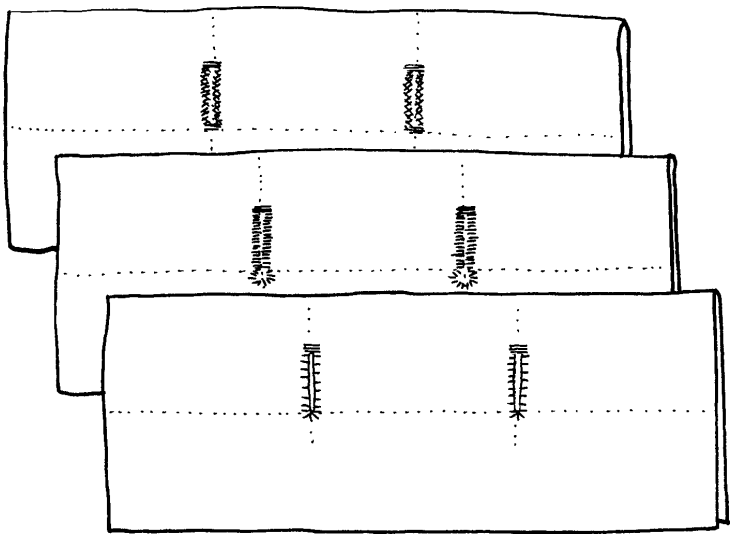
Automatic Buttonhole Samples



	1008	125	135PE	145	153QE	155	165	185	200
Automatic Buttonhole Feature	--	--	yes	yes	yes	yes	yes	yes	yes
Standard Buttonhole	dial	10	10	10	9	9	51	51	51
Handlook Buttonhole	--	--	--	--	--	--	--	63	63

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Memory Buttonhole

Fabric ..... heavy woven, 6” x 9”
Stabilizer ..... lightweight tear-away, 3” x 9”
Needle ..... 90/14 Universal
Thread ..... 30 wt. cotton embroidery, contrasting color
Presser Foot ..... Automatic Buttonhole with Slide #3A
Stitch ..... standard buttonhole
..... any other buttonhole
Needle Position ..... center

Fold the fabric in half to 3” x 9”. Insert the stabilizer between the fabric layers. Mark 4 lines on the fabric where the buttonholes will be sewn.

Temporary Buttonhole Memory
Select the Standard Buttonhole; sew a buttonhole of the desired length on the first line.

Sew the programmed buttonhole again on the second line. The machine will remember this length until a new measurement is programmed or until the machine is turned off.

Long Term Buttonhole Memory
Select any buttonhole; sew a buttonhole of the desired length on the third line.

To save the buttonhole in Long Term Memory, touch the appropriate symbol or button for your machine.

Turn machine off, then on again.

Select the same buttonhole; sew it again on the fourth line and compare the size to the previous buttonhole.

Notes

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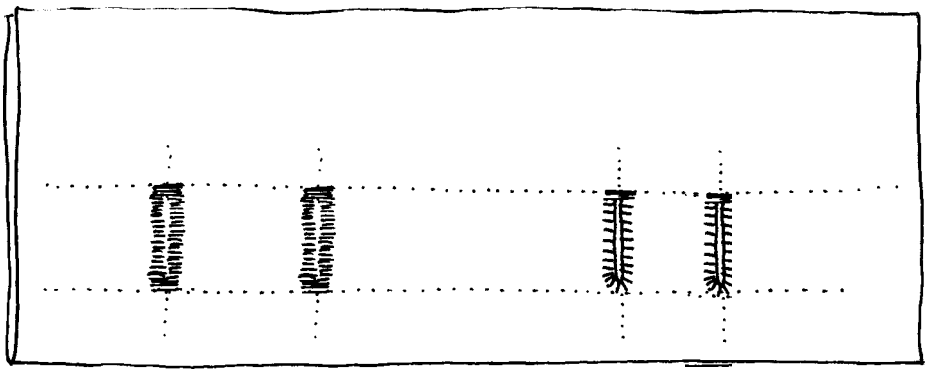
Memory Buttonhole Sample



	1008	125	135PE	145	153QE	155	165	185	200
Standard Buttonhole	dial	10	10	10	9	9	51	51	51
Long Term Memory Buttonhole Feature	--	--	mem+	mem+	mem+	mem+	store	store	save

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Straight Stitch Buttonhole

Fabric ..... firm, woven fabric, 4” x 6”
Stabilizer ..... lightweight tear-away, 4” x 6”
Needle ..... 90/14 Universal
Thread ..... 30 wt. cotton embroidery, contrasting color
Presser Foot ..... Reverse Pattern Foot #1/1C
Stitch ..... straight
Needle Position ..... center

Mark two lines perpendicular to the fold, spaced about 2” apart.

Attach Automatic Buttonhole Foot with Slide #3A/3C to the machine.

Select the Straight Stitch Buttonhole.

Stitch a buttonhole, positioning the beginning of it on the first line, aligning the fold with the 5/8” marking behind the foot.

Position the needle on the second line. Stitch another straight stitch buttonhole - *do not remove fabric.*

Select the Standard Buttonhole - sew this buttonhole (the same length as the straight stitch buttonhole) directly on top of the straight stitch buttonhole.

Notes:

- *Straight stitch buttonholes can be used to pre-sew and reinforce buttonholes on fabrics that fray easily. The buttonhole beads and bartacks will cover the stitching. Any of the methods for determining buttonhole length can be used.*

- *Straight stitch buttonholes can be used as a buttonhole on imitation suede and leather.*

- *The distance between the prestitched lines can be adjusted with the stitch width. The stitch length can also be adjusted to suit the fabric.*

Notes

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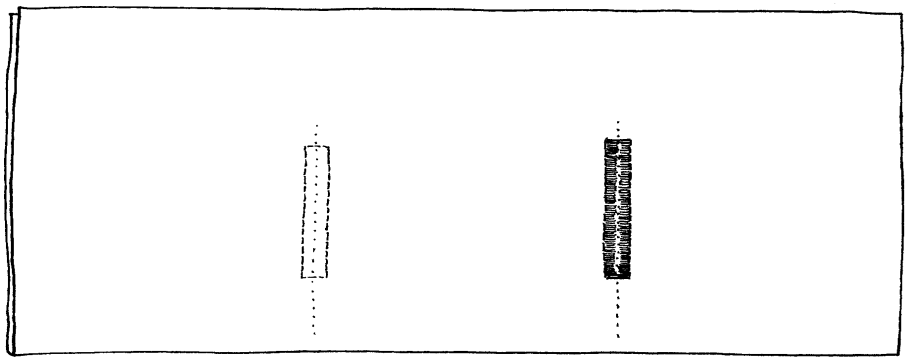
Straight Stitch Buttonhole Sample



	1008	125	135PE	145	153QE	155	165	185	200
Straight Stitch Buttonhole	--	--	--	12	--	--	59	59	59
Standard Buttonhole	dial	10	10	10	9	9	51	51	51

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Button Sew-On

Fabric ..... firm, woven fabric 4” x 6”
Stabilizer ..... lightweight tear-away, 4” x 6”
Notions ..... button, charm, hook/eye, 6” of narrow ribbon
Needle ..... 90/14 Universal
Thread ..... 30 wt. cotton embroidery, contrasting color
Presser Foot ..... Button Sew-On Foot #18
Stitch ..... button sew on program (or universal or zigzag)
Needle Position ..... center

Select the button the sew-on stitch. If not available, select the universal or zigzag stitch. Lower the feed dogs.

Fold the fabric in half to 2” x 6”; press. Insert the stabilizer.

Technique #1
Optional: Use a glue stick to hold a button in place.

Adjust the pin on Foot #18 to the highest position for a long shank.
Note: A short shank can be made for dresses and blouses or a long shank can be made for heavier fabrics such as coats and blazers.

Check the distance between the holes of the button by turning the hand wheel; adjust the stitch width if necessary. Hold the thread tails as you begin to sew.

If using the button sew-on stitch, the machine stops automatically when program is complete; threads are secured as part of program.

If using the universal or zigzag stitch, sew 6-8 stitches, stop, and tie threads on the wrong side to secure; trim excess thread

Technique #2
Using the lowest shank setting and the instructions above, attach a charm, a ribbon, and a hook-and-eye to the same fabric.

Mount the sample.

Notes

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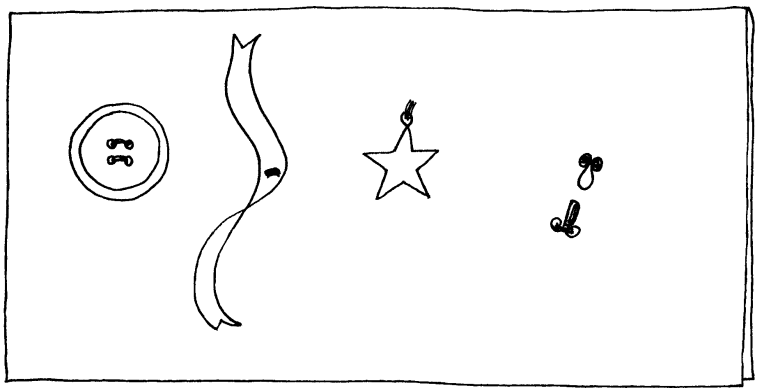
Button Sew-On Sample



	1008	125	135PE	145	153QE	155	165	185	200
Button Sew-On Stitch #	--	--	12	13	--	13	60	60	60
Universal Stitch #	4	--	17	--	--	19	15	15	15
Zigzag Stitch #	2	2	2	2	2	2	2	2	2

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Centered Zipper

Fabric ..... 2 pieces of firm, woven fabric, 4” x 8”
Other ..... 9” neckline zipper
Needle ..... 90/14 Universal
Thread ..... 30 wt. cotton embroidery, contrasting color
Presser Foot ..... Reverse Pattern Foot #1/1C
..... Zipper Foot #4
..... Zipper Foot with Guide #14
Stitch ..... straight
Needle Position ..... far left or far right, as indicated

Attaching the Zipper
Using Foot #1/1C and the Straight Stitch, sew the seam from the bottom to where the zipper stop will be; select Basting Stitch (see pages 18-19) and continue to within ½” from the top of the seam. Change back to stitch #1; sew the rest of the way to secure.

Press seam open and place right side of the zipper against the seam allowance, so the zipper teeth are centered over the seam. Pin or baste (using a temporary spray adhesive) each side of zipper to *seam allowance only*.

Change to Zipper Foot #4; adjust needle position to the right or left as needed to get close to the zipper teeth. Sew through the *zipper tape and seam allowance only*, from the bottom to the top on each side. Pin or baste through all layers. Change to Zipper Foot with Guide #14.

Topstitching the Zipper
Left Side: Adjust the seam guide on the foot one notch to the right of center and change needle position to far left. Sewing from the right side of the fabric and starting at the bottom, sink the needle into the seam. Sew out from the zipper stop about 3/8”, stop, pivot and make sure the seam guide on the foot is lying in the ditch of the seam. Sew up the left side of zipper.

Right Side: Adjust seam guide one notch to the left of center and change the needle position to far right. Repeat the above steps, starting at the seam and sewing to the right.

Press and trim the sample. Mount it, attaching it only at the top. You can then lift the sample and use it as a reference.

Notes

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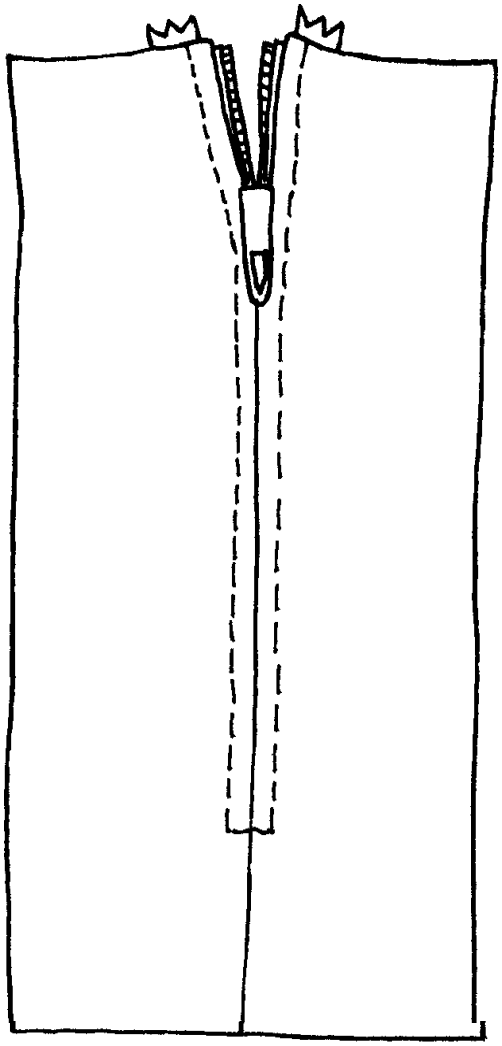
Centered Zipper Sample



	1008	125	135PE	145	153QE	155	165	185	200
Straight Stitch	1	1	1	1	1	1	1	1	1
Needle Positions	5	9	9	9	9	9	11	11	11

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Invisible Zipper

Fabric ..... 2 pieces of firm, woven fabric, 4” x 8”
Other ..... 9” invisible zipper
Needle ..... 90/14 Universal
Thread ..... 30 wt. cotton embroidery, contrasting color
Presser Foot ..... Invisible Zipper Foot #35
..... Bulky Overlock Foot #12/12C
..... Reverse Pattern Foot #1/1C
Stitch ..... straight
Needle Position ..... as needed

Note: The invisible zipper can be used in place of a conventional zipper when an uninterrupted design line is desired.

Zipper Insertion
Mark seam lines on right side of fabric. Select the Straight Stitch. Open zipper. *It is not necessary to press coils as with other invisible zipper applications.* Invisible Zipper Foot #35 has specially designed grooves that guide the zipper coils out of the way as the tape is stitched in place. *Note: Do not sew the seam first as with conventional zippers. Invisible zipper tapes are sewn to fabric sections first, then the seam is sewn.*

With right sides together, baste or pin the right zipper tape to the right garment piece, so coil is on the 5/8” seam line.

Using center needle position, place coil in right groove of Foot #35. Sew until foot is stopped by the zipper pull. *Note: Needle should sew close to, but not into, the zipper coils.*

With right sides together, baste or pin the left zipper tape to the left garment piece so that the coil is again on the 5/8” seam line.

Check to be sure the zipper is not twisted. Place the coil in the left groove of the foot and complete as with the right side.

Completing Seam
Close zipper. Using Bulky Overlock Foot #12 or #12C, place fabric right sides together and stitch as close to the zipper as possible, startingabout ½” above the bottom of the zipper. It may be necessary to move the needle position to the left slightly. Backstitch to begin and sew about 2”; then change to Foot #1C to complete the seam. Press and trim the sample. Mount it, attaching it only at the top. You can then lift the sample and use it as a reference.

Notes

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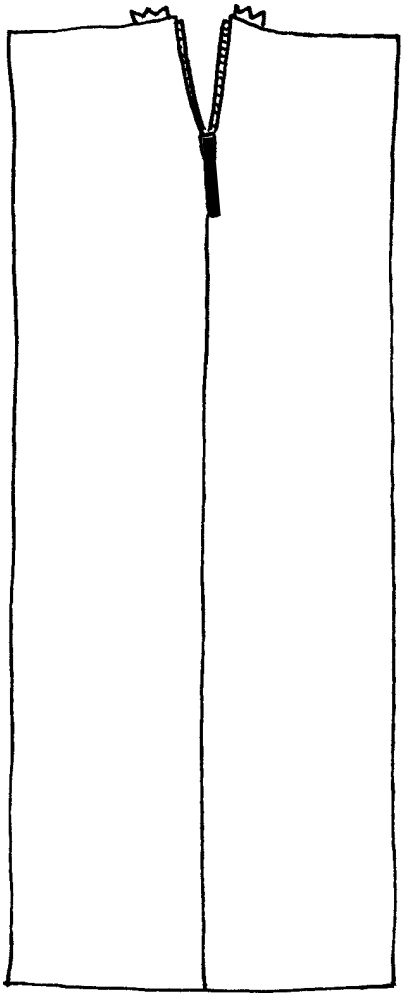
Invisible Zipper Sample



	1008	125	135PE	145	153QE	155	165	185	200
Straight Stitch	1	1	1	1	1	1	1	1	1

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Darning

Fabric ..... firm, woven fabric 4” x 6”
Interfacing ..... fusible tricot knit interfacing, 3” x 5”
Needle ..... 90/14 Universal
Thread ..... 30 wt. cotton embroidery, contrasting color
Presser Foot ..... Darning Foot #9
..... Reverse Pattern Foot #1/1C
..... Automatic Buttonhole Foot with Slide #3A/3C
Stitch ..... straight
..... simple darning program
..... reinforced darning program
Needle Position ..... center

Make a hole about ½” round in the fabric; make 2 tears about 1” each.

Manual Darning
Attach Darning Foot #9. Select the straight stitch and lower the feed dog.

Bond the fusible knit interfacing on the wrong side of the hole. Hoop the fabric to prevent distortion. Stitch, moving the hoop up and down, then side to side without pressure.

Simple Darning
Select the simple darning program for the first tear. (Remember to raise feed dog.)

Attach Reverse Pattern Foot #1C. Engage the appropriate symbol for your machine.

Sew the first row of stitching the length of the tear - press the Quick Reverse button at the end of the row; the length is now programmed. Complete the darning program - the machine stops automatically.

Reinforced Darning
Select the Reinforced Darning Program for the second tear. Use Automatic Buttonhole Foot with Slide #3A.

Insert the needle in the area to the left of the top of the tear. Begin sewing; notice that the running stitch is sewn first.

When the length of the tear has been covered, press the Quick Reverse button. Programming is complete and the machine will finish automatically.

Notes

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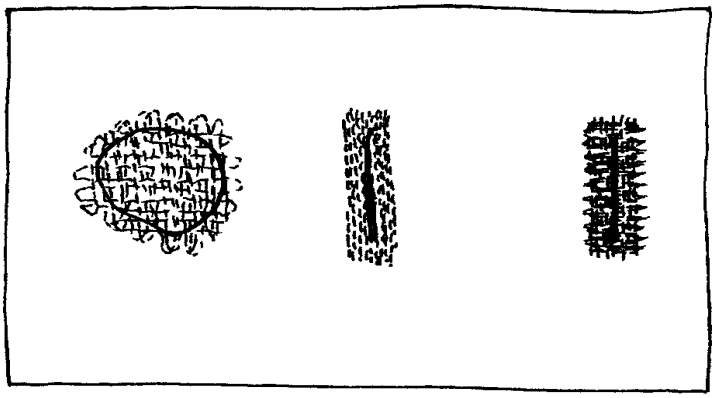
Darning Sample



	1008	125	135PE	145	153QE	155	165	185	200
Straight Stitch #	1	1	1	1	1	1	1	1	1
Simple Darning Program #	--	11	14	14	12	14	22	22	22
Simple Darning Symbol	--	--	--	--	--	--	foot 3	foot 3	stitch counter
Reinforced Darning Program #	--	--	--	--	--	--	23	23	23

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Class 3
Product Reference List
More Practical Stitching

- ❑ *Feet-ures,* Volumes 1 and 2
- ❑ Bulky Overlock Foot #12/12C
- ❑ Zipper Foot with Guide #14
- ❑ Button Sew-On Foot #18
- ❑ Invisible Zipper Foot #35

- ❑ BERNINA® Ironing System

- ❑ Gimp or Pearl Crown Rayon
- ❑ Stitch Witchery (narrow roll)
- ❑ OESD Tear-Away Stabilizer
- ❑ Buttonhole Space Tape
- ❑ Buttonhole Placement Gauge
- ❑ Marking Pens & Pencils
- ❑ Applique Scissors
- ❑ Seam Sealant
- ❑ Glue Stick
- ❑ Buttonhole Cutter & Block Set
- ❑ Cotton Elastic

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Class 4
Decorative Stitching
Class Overview

Gathering Samples

1 Gathering Over One Cord
2 Gathering Over Two Cords
3 Gathering - Foot #16
4 Gathering - Ruffler

Specialty Needle Samples

5 Pintucks & Double Needles
6 Triple (Drilling) Needle
7 Wing Needle/Double Wing Needle
8 Making Entreduex

This class is formatted for owners of the following models of BERNINA® sewing machines:

- ***classic*** 1008
- ***activa*** 125
- ***activa*** 135PE
- ***activa*** 145
- ***virtuosa*** 153QE
- ***virtuosa*** 155 “my choice”
- ***artista*** 165
- ***artista*** 185
- ***artista*** 200

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Gathering Over One Cord

Fabric ..... mediumweight cotton, 12” x 4”
Notions ..... 18” of cord
Needle ..... 80/12 Universal
Thread ..... all-purpose
Presser Foot ..... Embroidery Foot #6
Stitch ..... zigzag
Needle Position ..... center

Trim all four edges of sample fabric before beginning.

Thread the cord through the hole in Foot #6, leaving a 2”-3” tail behind the foot.

Select the Zigzag Stitch #2 (SW 2.5mm and SL 2-2.5mm).

Stitch 5/8” from one 12” edge; sew over the cord.

Secure the cord at the beginning and then pull it to gather the sample to 6”.

Notes:
- Gathering over cord adds additional strength, eliminates thread breakage and allows better control of gathering.
- Drop the feed dog and sew a bartack at the beginning and end of cord for strength.
- Do not sew through cording.

Notes

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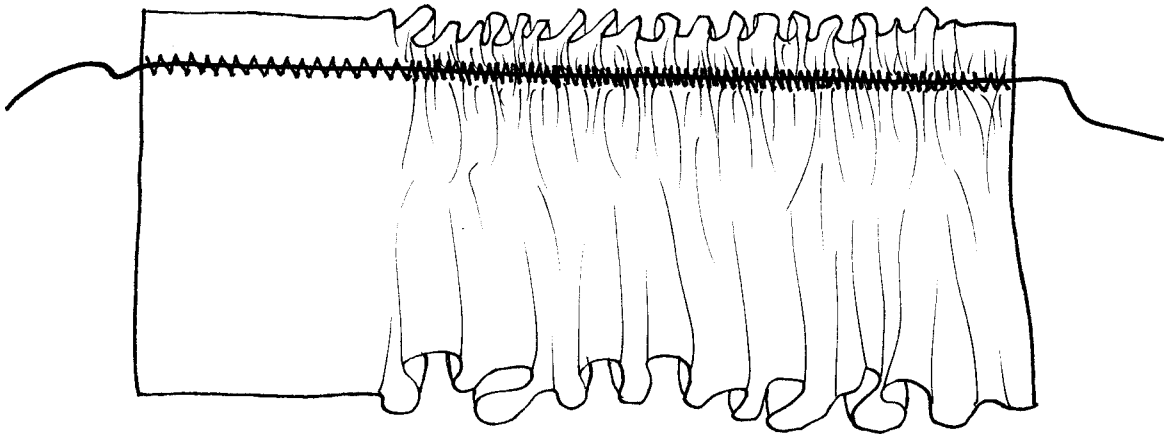
Gathering Over One Cord Sample



	1008	125	135PE	145	153QE	155	165	185	200
Zigzag Stitch	2	2	2	2	2	2	2	2	2

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Gathering Over Two Cords

Fabric ..... mediumweight cotton, 12” x 4”
Notions ..... 30” of cord
Needle ..... 80/12 Universal
Thread ..... all-purpose
Presser Foot ..... Standard Buttonhole Foot #3/3C
Stitch ..... gathering
Needle Position ..... center

Trim all 4 edges of the fabric piece with a wavy rotary cutter.

Place the fabric under the foot and lower the needle but *not* the foot.

Select the Gathering Stitch.

Fold cord in half and loop around the middle toe of foot #3C; lower the foot.

Lift cord loop from toe and pull cord forward leaving 3” tails behind the foot.

Begin to sew, allowing the two grooves of the buttonhole foot to guide the cord.

Sew along one 12” edge - 5/8” from the edge.

Pull on both cords to gather the sample to 6”.

Note: Lower the feed dogs and sew a bartack at beginning and end of cord for strength.

Notes

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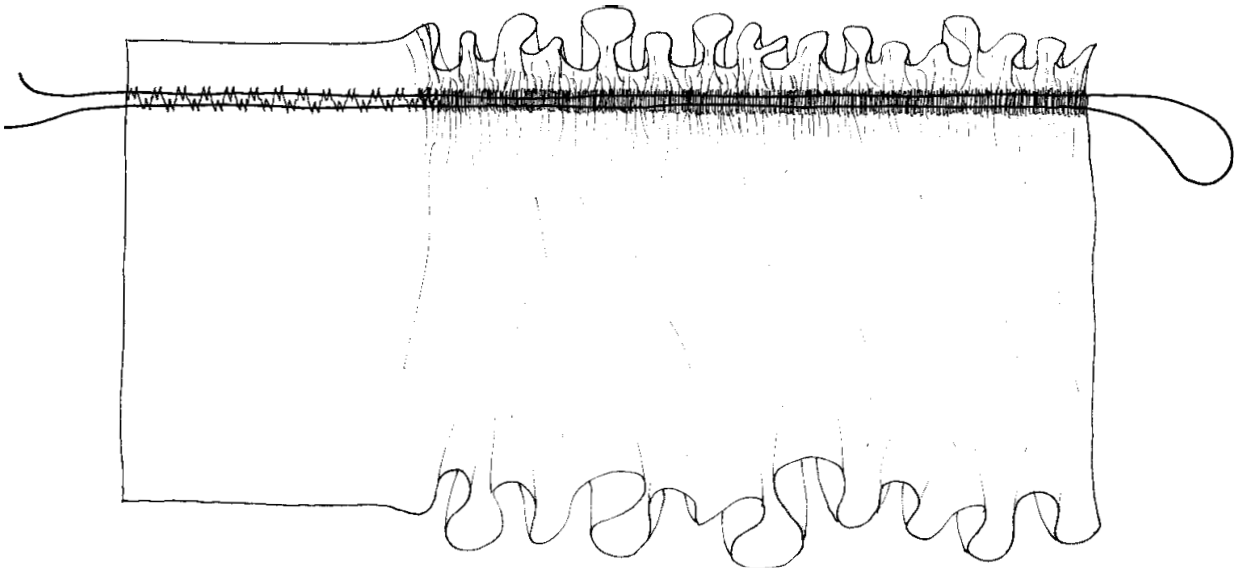
Gathering Over Two Cords Sample



	1008	125	135PE	145	153QE	155	165	185	200
Gathering Stitch	--	--	18	18	27	20	12	12	12

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Gathering With Foot #16

Fabric ..... 2 pieces mediumweight cotton, one 4" x 6", one 4" x 16"
Needle ..... 80/12 Universal
Thread ..... all-purpose
Presser Foot ..... Wide Gathering Foot #16 ***or***
..... Extra-wide Gathering Foot #16
Stitch ..... straight
Needle Position ..... far left

Trim all four edges of the sample fabrics before beginning.

Select the Straight Stitch (SW-0mm, SL-5mm)

Place the 16" length of fabric right side up under the foot. Align the edge of the fabric with the 5/8" mark on the stitch plate. Stitch for 2" to 3"; stop.

Insert the 6" length of fabric right side down into the slot of Foot #16, with the raw edge against the right side of the foot.

Continue stitching, carefully guiding both pieces of fabric. Guide the fabric that is being gathered with the left hand, the flat fabric with the right hand. Note that the fabric being gathered moves under the foot much faster than the flat, top layer.

Trim and mount sample.

Notes:
- There are three things that effect the amount of gathers:
1. Fabric Weight - The lighter weight the fabric, the easier to gather.
2. Tension - Increased upper tension will increase the amount of gathering.
3. Stitch Length - The longer the stitch length, the tighter the gathers.
- Use the basting stitch or the Long Stitch function to increase gathers in heavier weight fabrics such as woolens and corduroys.

Notes

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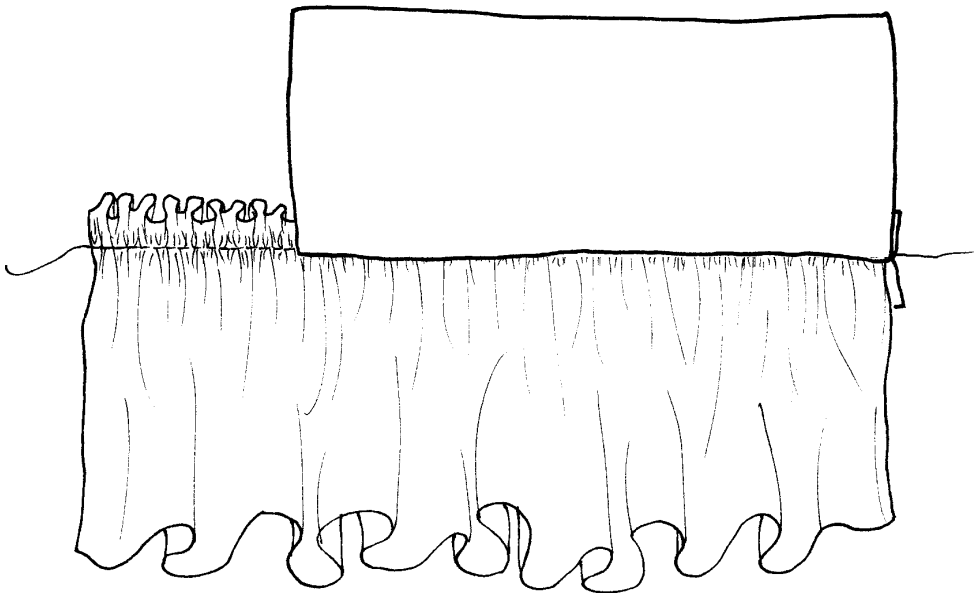
Gathering With Foot #16 Sample



	1008	125	135PE	145	153QE	155	165	185	200
Straight Stitch	1	1	1	1	1	1	1	1	1

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Gathering with Ruffler Attachment

Fabric ..... 2 pieces mediumweight cotton, one 4" x 6", one 4" x 16"
Needle ..... 80/12 Universal
Thread ..... all-purpose
Presser Foot ..... Ruffler Attachment #86
Stitch ..... straight
Needle Position ..... center

Trim fabric edges with wavy rotary cutter before sewing.

Select Straight Stitch (SW - 0mm, SL- 1mm-5mm). The longer the stitch length, the deeper the pleat.

Set the adjustment lever on the attachment at 1.

Place the 16" length of fabric (the piece to be ruffled) wrong side up between the two blades, snugging it against the edge of the seam guide slot, making sure it is slightly beyond the needle.

Lower the foot and begin sewing; stitch for 2" to 3". If gathers are too deep, turn the adjusting screw counter clockwise; if too shallow, turn the screw clockwise.

Insert the 6" length of fabric (the flat piece) under the Ruffler, right side up, through the seam guide slot. Keep both edges aligned with the right side of the slot.

Stitch, keeping speed steady.

Trim and mount sample.

Notes

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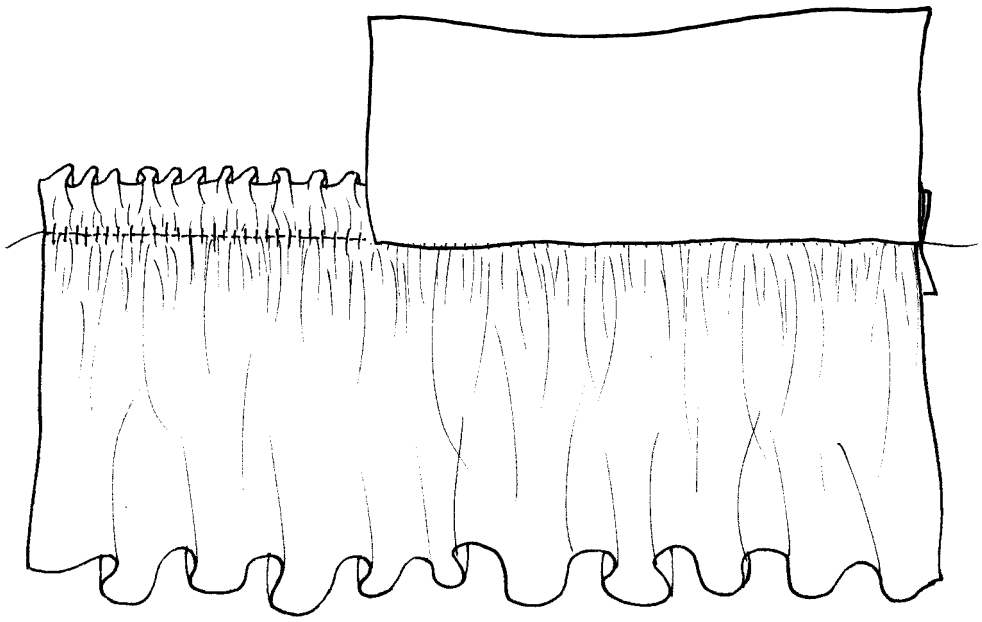
Gathering With Ruffler Attachment Sample



	1008	125	135PE	145	153QE	155	165	185	200
Straight Stitch	1	1	1	1	1	1	1	1	1

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Pintucks & Double Needles

Fabric	lightweight cotton, 6” x 8”, starched
Needle	Double (size should correspond to foot)
Thread	two spools, all-purpose
Presser Foot	Pintuck Foot #30, #31, #32, or #33
Stitch	straight
	various decorative stitches as desired
Needle Position	center

Select the desired presser foot and corresponding double needle. Insert the Double needle and thread with two different colors. Select the Straight Stitch (SL 1.75mm-2mm). Engage the Double Needle Limitation function or Security Program if available and select the appropriate Double Needle option.

Parallel Pintucks
Start sewing in one corner and meander across the fabric. Position the previously sewn tuck in the groove of the foot and sew 5-6 more rows evenly spaced across one corner of the fabric.

Corded Pintucks
Thread the cord through the hole in the needle plate. *Note: Cord should be colorfast and shrink-proof.* Thread machine, using the same thread in both needles and the bobbin.

It is not possible, with a double needle, to turn completely around a corner in one operation. To turn corners, use the following steps:
- Sew to corner; needle in fabric, drop feed dogs.
- Turn halfway, make one stitch, lower needles into fabric, then turn the rest of the corner.
- Raise feed dogs and continue.

Sew four random corners.

Sew 2 points as on a leaf or star.
- Sew to corner; needle up.
- Pivot work carefully and lower needles back into same place.

Decorative Pintucks
Select desired decorative stitches; stitch several rows of pintucks.

Trim and mount sample.

Notes

Tips
Sew at a slower speed and test the movement of the needle, making sure that it doesn’t hit the presser foot.

Tighten top tension to create more dimension.

Choose the correct needle for the selected pintuck foot:

- Pintuck Foot #30
  3 groove - 4mm needle
- Pintuck Foot #31
  5 groove - 2.5 ***or***
  3mm needle
- Pintuck Foot #32
  7 groove - 2mm needle
- Pintuck Foot #33
  9 groove - 1.6 needle

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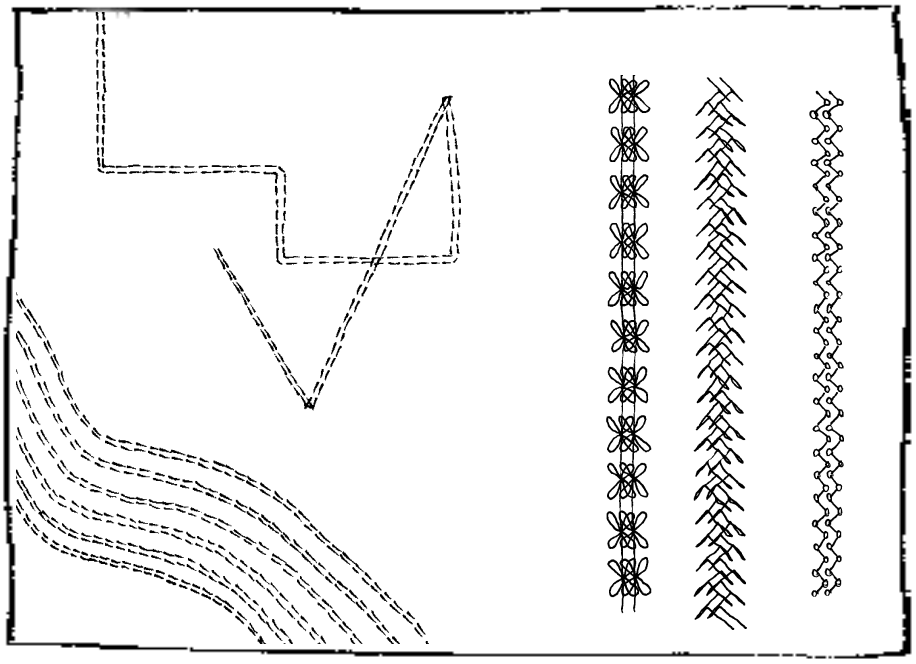
Pintuck Sample



	1008	125	135PE	145	153QE	155	165	185	200
Feather Stitch	--	22	22	23	26	66	332	332	332
Running Stitch	7	4	4	4	4	4	4	4	4
Straight Stitch Scallop	--	--	--	--	--	--	719	719	719

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Triple Needle Stitching

Fabric .....firmly woven, 6" x 6"
Stabilizer ..... firm tear-away or cut-away, 6" x 6"
Needle ..... Triple (3.0mm)
Thread ..... Isacord embroidery thread, 3 different colors
Presser Foot ..... Clear Foot #34/#34C ***or***
..... Open Embroidery Foot #20/#20C
Stitch ..... straight
..... various decorative stitches as desired
Needle Position ..... center

Thread each needle with a different color thread.

Engage the Double Needle Limitation or Security Program if available and select the appropriate width option.

Note: *If these features are not available, check to be sure the needles will not strike the foot by turning the handwheel to "walk" the machine through the first stitch.*

Select 5 different stitches and sew across the fabric randomly.

When doing decorative needle work you must sew slowly - change motor to ½ speed.

Trim threads, then trim sample edges, and mount.

Notes

Tips

Sew at a slower speed and test the movement of the needle, making sure that it doesn't hit the presser foot.

Tighten top tension to create more dimension.

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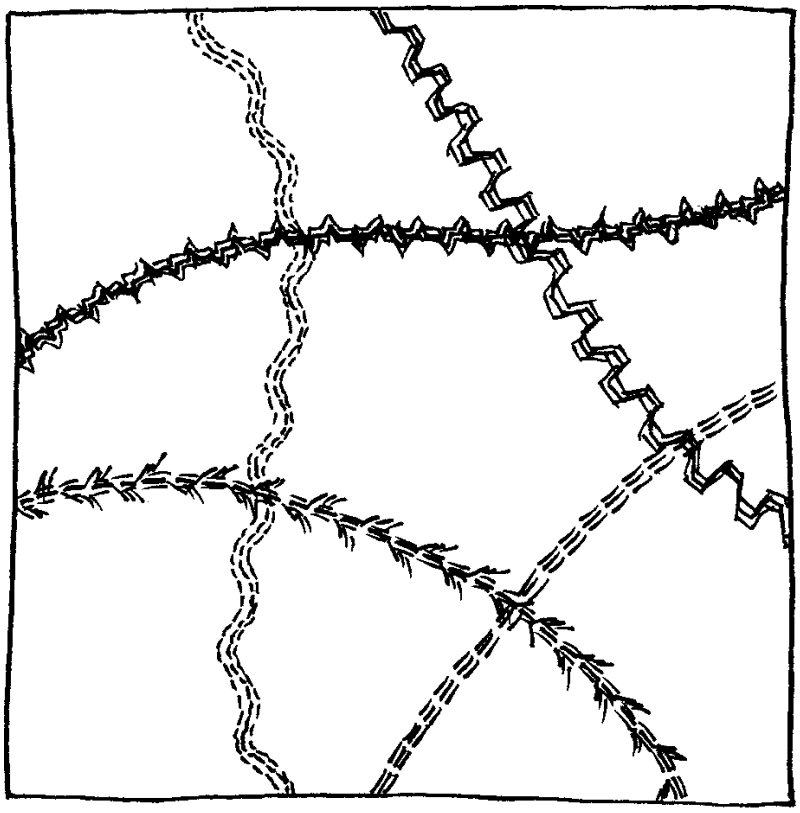
Triple Needle Stitching Sample



	1008	125	135PE	145	153QE	155	165	185	200
Decorative Stitch Option	3	15	22	23	26	66	332	332	332
Decorative Stitch Option	7	4	26	26	4	4	16	16	16
Decorative Stitch Option	13	12	18	18	27	20	12	12	12

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Wing Needle Stitching

Fabric	cotton organdy, 6” x 8”
Notions	6” length of heirloom insertion lace
Needle	Wing size 100/16
	Double Wing
Thread	two spools embroidery thread or 60 weight cotton
Presser Foot	Clear Foot #34/#34C ***or***
	Open Embroidery #20/#20C
Stitch	straight
	blindstitch
	decorative stitches as desired
Needle Position	center

Single Wing Needle
Insert Wing needle. If available, engage the Wing Needle Limitation function or Security Program (Wing needle option). This alters the stitch width so that the “wings” of the needle will not hit the stitch plate; also constrains stitches to the center needle position.

Position the lace on top of the organdy. Select the pin stitch or blanket stitch (if not available, select a narrow zigzag stitch). Stitch along one edge of the lace, engaging the Mirror Image function if necessary. Sew along the remaining edge, again engaging Mirror Image as needed. Carefully trim fabric from under lace.

Frame lace insertion with three of the stitches suggested in the chart.

Double Wing Needle
Insert Double Wing Needle. Select the Straight Stitch. Engage the Double Wing Needle limitation/security funciton. Adjust the stitch length to 3mm. Stitch across the fabric on the bias (diagonal). At the end, carefully pivot and sew back along the first line of stitching, with the “wing” portion of the Double needle entering into the holes created by the first line of stitching.

Frame the center row of stitching with two additional lines of stitching:
- 1st row - blindstitch - sew in one direction, pivot, and stitch back to create a “chain” effect
- 2nd row - decorative straight stitch motif, such as a scallop

Carefully remove the stabilizer following the manufacturer’s directions.

Trim and mount the sample.

Notes

Wing Needle Tips:
When selecting stitches to use with a Wing or Double Wing Needle, look for multi-motion stitches where the needle enters the same hole multiple times.

Stitching on the diagonal (bias) of the fabric allows the holes created by the Wing needle to open more easily. To help support the fabric and stitching, temporarily bond a layer of heavy, water-soluble stabilizer to the wrong side of the fabric using 505 temporary spray adhesive.

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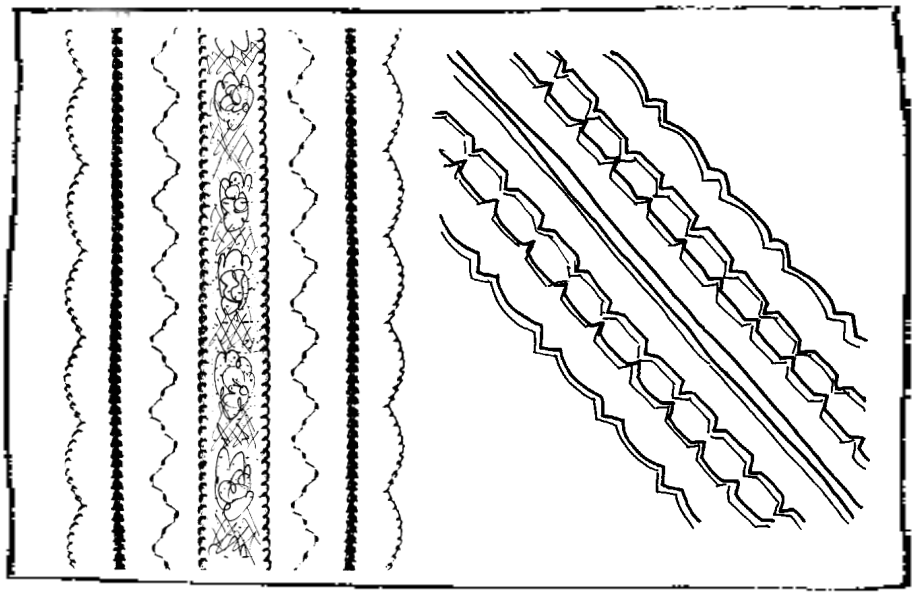
Wing Needle Sample



	1008	125	135PE	145	153QE	155	165	185	200
Wing Needle	2	14	9	21	25	63/31	720	720	720/754
Stitch	7	4	4	4	4	4	726	726	726
Options	4	16	23	43	28	21	701	701	701
	--	12	17	41	27	90	732	732	732
Double Wing Needle	1	1	1	1	1	1	1	1	1
Stitch	3	7	7	7	7	7	9	9	9
Options	4	12	18	41	27	90	719	719	733
Specialty Needle Function	--	--	--	--	--	--	limitation	limitation	security

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Entredeux

Fabric ..... cotton organdy, 5" x 6"
Notions ..... heavy cotton thread for cording
Stabilizer ..... spray starch and/or water soluble stabilizer
Needle ..... Wing, size 100
Thread ..... 60 weight cotton
Presser Foot ..... Cording Foot #25
Stitch ..... straight
Needle Position ..... center

Insert Wing needle. If available, engage the Security Program, selecting the Wing needle option. This alters the stitch width so that the "wings" of the needle will not hit the stitch plate; also constrains stitches to the center needle position.

Select the entreduex or star stitch; adjust stitch length to 3mm.

Attach Cording Foot #25, but *do not* load cord into the guides at this time. Stitch a row of entredeux.

Load Cording Foot #25 with lengths of heavy cotton thread in grooves 2 and 4.

Stitch a second row of entredeux. As the hemstitching is sewn, the heavy cotton threads fill the outer edges of the stitching, creating a stitch that looks very similar to fine, purchased endredeux.

Trim and mount sample.

Notes

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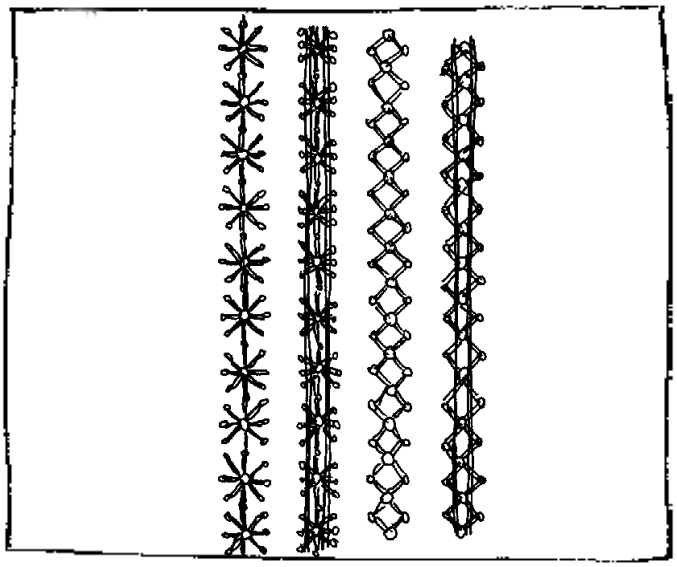
Entreduex Sample



	1008	125	135PE	145	153QE	155	165	185	200
Star Stitch	--	17	24	42	28	22	711	711	711
Entredeux Stitch	--	16	23	42	--	21	701	701	701

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Class 4
Product Reference List
Decorative Stitching

- ❑ *Feet-ures,* Volumes 1 and 2
- ❑ Embroidery Foot #6
- ❑ Edgestitch Foot #10 ***or***
- ❑ Edgestitch Foot #10C
- ❑ Bulky Overlock Foot #12 ***or***
- ❑ Bulky Overlock Foot #12C
- ❑ Wide Gathering Foot #16 ***or***
- ❑ Extra Wide Gathering Foot #16
- ❑ Pintuck Feet
  - ❑ #30 - 3 groove
  - ❑ #31 - 5 groove
  - ❑ #32 - 7 groove
  - ❑ #33 - 9 groove
- ❑ Ruffler Attachment #86

- ❑ BERNINA® Ironing System

Needles
- ❑ Double Needles
- ❑ Triple (or Drilling) Needles
- ❑ Wing Needle
- ❑ Double Wing Needle

- ❑ Guide Bar Set with Rulers
- ❑ Secondary Bobbincase (Black Latch)
- ❑ Wavy Rotary Cutter
- ❑ Ruler
- ❑ Cutting Mat

- ❑ Elastic Thread
- ❑ Gimp Cord
- ❑ Spray Sizing

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Class 5
More Decorative Stitching
Class Overview

Decorative Detail Samples

1 Pleats/Tucks
2 Off-the-Edge Scallops
3 Lace Insertion
4 Fagoting/Bundling
5 Fringing
6 Piping

Embellishment Samples

7 Patchwork/Quilting
8 Applique
9 Surface Embellishment

This class is formatted for owners of the following models of BERNINA® sewing machines:

- ***classic*** 1008
- ***activa*** 125
- ***activa*** 135PE
- ***activa*** 145
- ***virtuosa*** 153QE
- ***virtuosa*** 155 “my choice”
- ***artista*** 165
- ***artista*** 185
- ***artista*** 200

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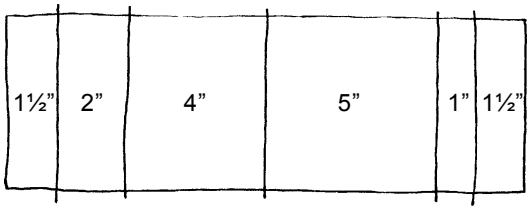
Pleats and Tucks

Fabric ..... medium weight cotton, 5" x 15"
Needle ..... 80/12 Universal
Thread ..... all-purpose sewing thread
Presser Foot ..... Reverse Pattern Foot #34/34C
..... Quilting/Seam Guide
..... Edgestitch #10/10C
Stitch ..... straight
Needle Position ..... far right

Reverse Pattern Foot #1C:
Mark fabric as shown; fold fabric along the lines; press.

Select the Straight Stitch

Fold fabric along the first line. Stitch first tuck, aligning the right edge of Foot #1/1C with the fold.



Fold the fabric along the second line. Move needle position to the far left; stitch tuck, aligning fold with the right edge of the foot.

Attach the Quilting/Seam Guide to the back of Foot #1C. Adjust the guide to 2¼" from the center needle position. Fold fabric along the third line and stitch a third tuck aligning the guide along the fold.

Edgestitch Foot #10/10C:
Fold the fabric along the fourth line. Place the fold to the left of the center blade of Foot #10, with the fold against the blade.

Move the needle position all the way to the left; sew.

Fold the fabric along the fifth line; position the fabric as for the last fold.

Move the needle position to a "half left" position; sew.
Note: Very narrow tucks are possible with this foot.

Notes

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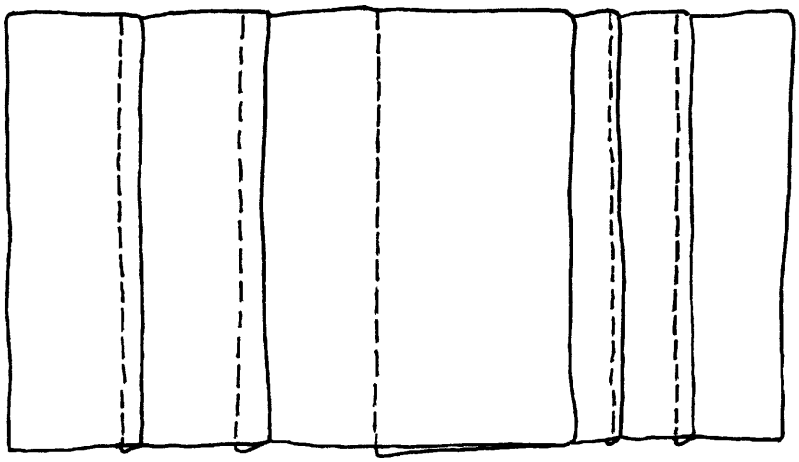
Pleats and Tucks Sample



	1008	125	135PE	145	153QE	155	165	185	200
Straight Stitch	1	1	1	1	1	1	1	1	1
Needle Positions	5	9	9	9	9	9	11	11	11

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Off-the-Edge Scallops

Fabric ..... mediumweight cotton, 8” x 4”
Notions ..... cording (gimp, perle cotton)
..... Stitch N Ditch™ Heirloom Stabilizer , 1 yard
Needle ..... 80/12 Universal
Thread ..... #75/11 Embroidery
Presser Foot ..... Patchwork Foot #37
..... Open Embroidery Foot #20/#20C
Stitch ..... straight
Needle Position ..... center

Draw 4 lines about 1¼” apart across the width of the fabric. Fold along each line and press.

Select the Straight Stitch; attach Patchwork Foot #37 to the machine. Sew a ¼” tuck on each of the folds.

Change to Open Embroidery Foot #20 or #20C.

Select the Satin Scallop Stitch. Thread the cord through the hole in the stitch plate (directly in front of the needle).

Lay the edge of the adding machine tape under the previously sewn tuck, with most of the paper showing beyond the fold of the tuck.

Begin stitching on the paper; the cord will be drawn into the scallop stitching. (The scallop actually forms over the cord.) Continue stitching, guiding the fabric under the foot so that only 2-3 stitches at the “V” of the scallop stitch into the fold.

Sew off-the-edge scallops to each of the stitched tucks.

Gently remove the adding machine paper from the completed scallops.

Trim and mount the sample.

Notes

Off the Edge Tip:
Stitch N Ditch™ Heirloom Stabilizer is very thin, crisp, and easy to tear, which makes it perfect for off-the-edge techniques.

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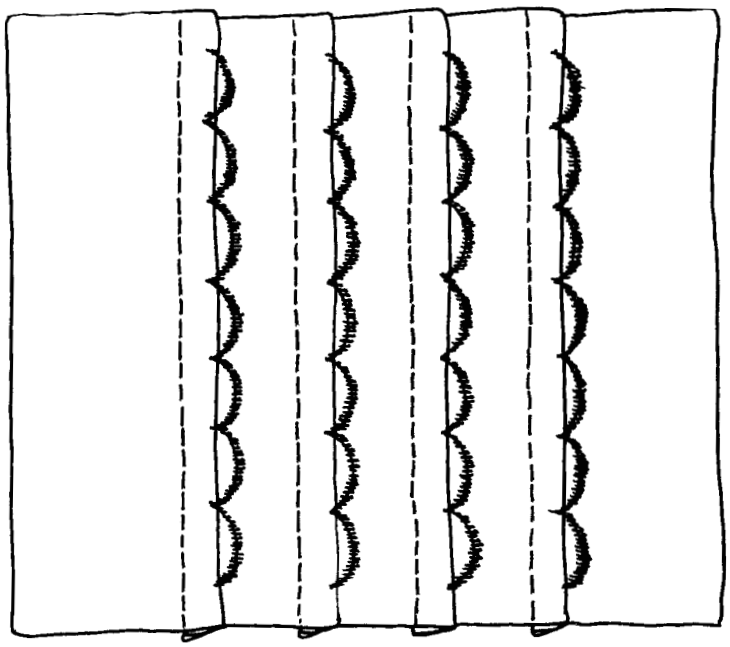
Off-the-Edge Scallops Sample



	1008	125	135PE	145	153QE	155	165	185	200
Straight Stitch	1	1	1	1	1	1	1	1	1
Satin Stitch Scallop	8	20	30	50	--	32	416	416	416

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Lace Insertion

Fabric ..... lightweight cotton 4" x 6"
Notions ..... 9" insertion lace, ½ "- ¾" wide
Needle ..... 70/10 Universal
Thread ..... 60 weight cotton
Presser Foot ..... Edgestitch Foot #10/10C
Stitch ..... straight
Needle Position ..... half left, half right

Pin or spray-baste the lace in position on top of the fabric

First Run:
Select the Straight Stitch; adjust the length to 1.5mm-2mm. Move the needle to half left (***artista*** 185 & 200: adjust needle one position to left).

Align the left edge of the lace with the guide on the foot and sew. Sew the right side in the same manner using the half right needle position (***artista*** 185 & 200: adjust needle one position to right).

From the back, *carefully* cut through the fabric, in the middle of the two rows of stitching, leaving the lace intact. Press the fabric back against the straight stitch.

Second Run:
Select the Zigzag Stitch; adjust the width to1.5mm-2mm and the length to 0.75mm-1mm. Move the needle to half left (***artista*** 185 & 200: adjust needle one position to left).

Place edge of lace first to the left of the blade, and sew the zigzag stitch over the edge of the lace and the previously sewn straight stitch. Sew the right side in the same manner using the needle position set at half right (***artista*** 185 & 200: adjust needle one position to right).

Trim surplus fabric from the wrong side.

Notes

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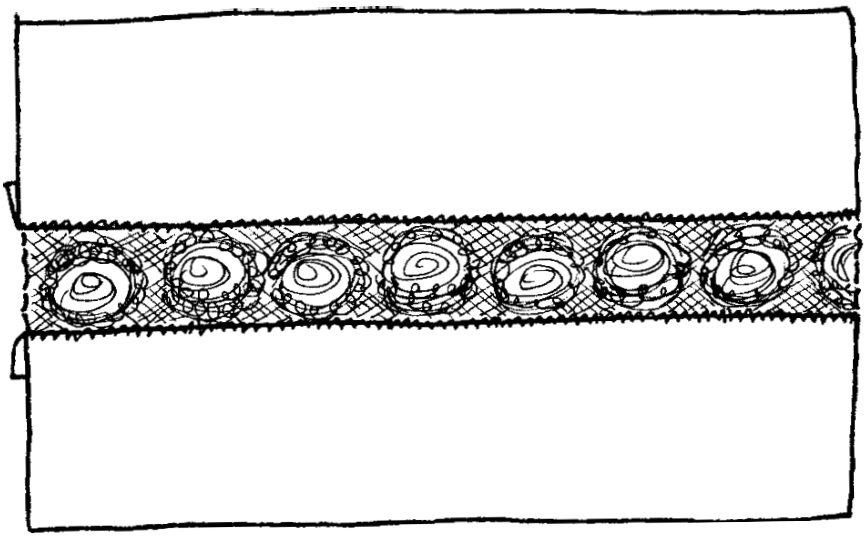
Lace Insertion Sample



	1008	125	135PE	145	153QE	155	165	185	200
Straight Stitch	1	1	1	1	1	1	1	1	1
Zigzag Stitch	2	2	2	2	2	2	2	2	2

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Fagoting & Bundling

Fabric	firm fabric, 2 pieces, 3 ”x 5” each
Needle	90/14 Embroidery
Thread	embroidery
Presser Foot	Tailor Tack Foot #7
	Open Embroidery Foot #20/20C
	Clear Foot #34/34C
Stitches	zigzag
	decorative stitches as desired
	triple straight
Needle Position	center

Fagoting
Select the Zigzag Stitch with a width of 5mm and a satin stitch length. Decrease upper tension to 1. Attach Foot #7 to the machine. Place fabrics right sides together; sew with a 5/8” seam on a 5” side. Sew slowly - adjust motor to ½ speed, if available. When finished sewing the seam, pull the two layers firmly apart and press open.

Change to Open Embroidery Foot #20/20C for better visibility. Stabilize stitching area if necessary. From right side, anchor fagoting to fabric on either side with a decorative stitch through the seam allowance. Adjust width and length as desired; engage Mirror Image (if available) as needed. Trim any excess seam allowance if needed.

Bundling
To “bundle” fagoting stitches, select the Triple Straight Stitch, attach Clear Foot #34/#34C to the machine, center the foot over the fagoting stitches, and sew through the middle. Start bundling at center and sew to one end, leaving half the stitching unbundled.

Notes

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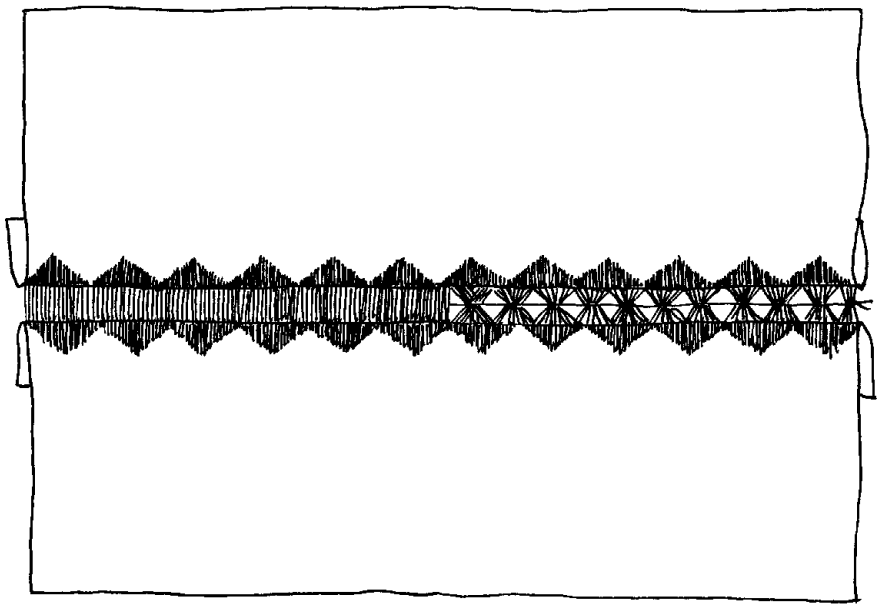
Fagoting & Bundling Sample



	1008	125	135PE	145	153QE	155	165	185	200
Zigzag Stitch	2	2	2	2	2	2	2	2	2
Decorative Stitch	13	8	15	19	14	40	427	427	427
Triple Straight Stitch	9	6	6	6	6	6	6	6	6

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Fringing

Fabric	firm fabric, 2 pieces, 3 ”x 5” each
Needle	90/14 Embroidery
Thread	embroidery
Presser Foot	Tailor Tack Foot #7
	Embroidery Foot #6
	Clear Foot #34/34C
Stitches	zigzag
	decorative stitches as desired
	triple straight
Needle Position	center

Fringing
Select a zigzag stitch with a with of 5mm and a satin stitch length. Attach Foot #7 to the machine. Insert a bobbin in a contrasting color.

Turn under ½” at one 5” end of one fabric piece; turn under ½” along one 5” end of the remaining fabric piece. Butt folded edges together under the presser foot, right sides up.

Guide fabric while stitching so needle pierces both fabric pieces.

Carefully remove the bobbin thread and gently separate the two fabrics, leaving them joined by strands of the upper thread.

Change to Embroidery Foot #6. Anchor the upper edge of the fringe to the fagoting/bundling sample by oversewing it. Sew halfway with a decorative stitch and the remainder with a different decorative stitch.

After fringe is secured on one side, the other fabric can be pulled away.

Trim excess seam allowance from wrong side if needed.

Notes

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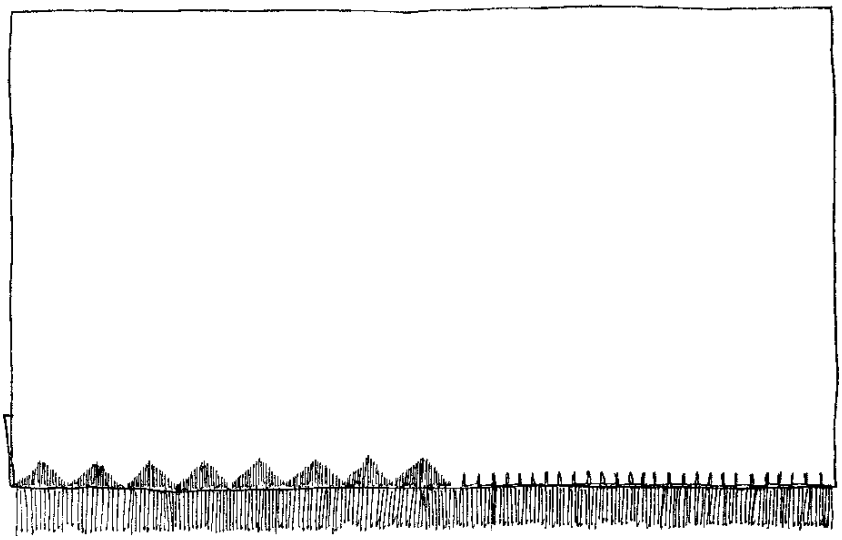
Fringing Sample



	1008	125	135PE	145	153QE	155	165	185	200
Decorative Stitch	13	8	15	19	14	40	406	406	406
Triple Straight Stitch	9	6	6	6	6	6	6	6	6
Decorative Stitch	12	14	9	21	25	63	329	329	329

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Piping

Fabric	firmly woven, 6” x 4”
Notions	bias strips, 2” x 15”
	18” length of 3/32” filler cord
Needle	90/14 Universal
Thread	all-purpose
Presser Foot	Bulky Overlock Foot #12/12C
Stitch	straight
Needle Position	as needed

Fold the wrong side of the bias strip around the filler cord and position it under the presser foot with the folded edge to the left and the cord under the center of the foot so it rides in the large groove.

Using a straight stitch and with the needle in the half right position, begin stitching. The stitches will be sewn alongside the cord, creating a 5/8” seam. Trim seam allowance if necessary.

Once piping is covered, it is ready to be inserted into a seam. Cut the other fabric piece in half, making two 2” x 6” pieces.

Matching raw edges, place piping right sides together with one long edge of fabric. Place remaining fabric right sides together with piping and first fabric piece.

Position fabric/piping under presser foott; adjust the needle one position closer to the center needle position.
Note: By adjusting the needle position, the previous stitching will not be seen on the finished project.

Notes

Covered Cord Tips:
Fabric strips should be cut 1¼” plus the circumference of the cord being used. Trim the 2” strip, if needed, to work with the cording being used. This should result in a 5/8” seam allowance on the finished piping.

Strips for covering cord are generally cut on the bias (diagonal); however, cross-wise and lengthwise strips may be used if there are no corners to be turned or curves to maneuver.

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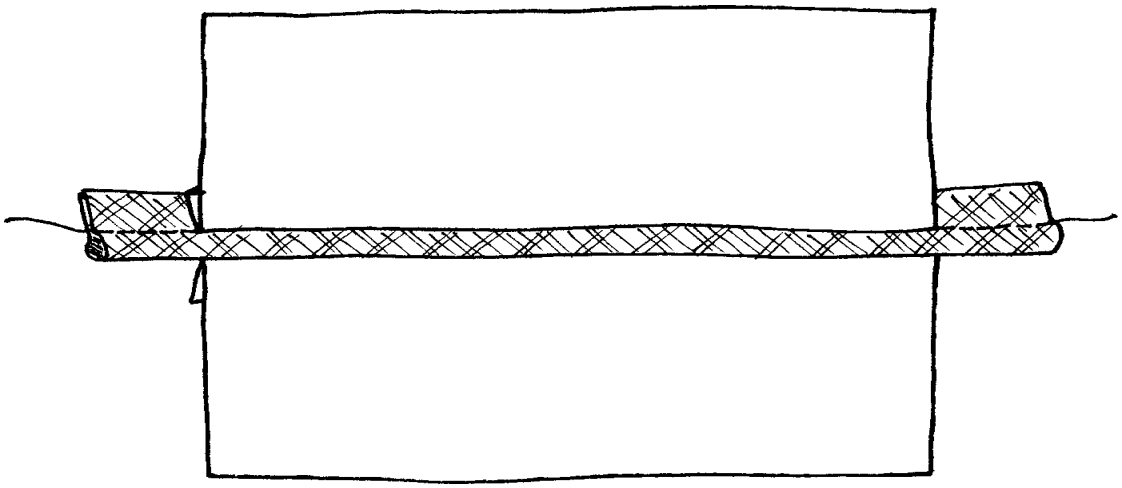
Piping Sample



	1008	125	135PE	145	153QE	155	165	185	200
Straight Stitch	1	1	1	1	1	1	1	1	1
Needle Positions	5	9	9	9	9	9	11	11	11

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Patchwork/Quilting

Fabrics ..... medium print cotton, one 3" x 7" center strip
..... "solid" print cotton, two 2 ½" x 7" strips
..... print cotton, one 7" x 7" square (backing)
Stabilizer ..... thin cotton batting, 7" x 7"
..... temporary spray adhesive (505)
Needle ..... 90/14 Quilting
Thread ..... 50 weight cotton thread
..... clear monofilament ("invisible" thread)
Presser Feet ..... Patchwork Foot #37
..... Walking Foot #50
..... Leather Roller Foot #55
..... Freemotion Quilting Foot #29/29C
Stitch ..... straight
..... hand-look quilting
Needle Position ..... center

Patchwork
Seam "solid" strips to each side of center print strip using Patchwork Foot #37 and a ¼" seam allowance. Press seams to sides.

Create a "quilt sandwich" by placing the batting between the patchwork block and the backing square, wrong sides to the batting. Use 505 adhesive to "baste" the layers together.

Hand-Look Quilting Stitch
Attach Walking Foot #50 to the sewing machine.

Insert a bobbin of colorful cotton thread into the machine; thread the needle with clear monofilament thread.

Select the Hand-Look Quilting Stitch. Stitch along the outer edge of the patchwork seams, about 1/8" to ¼" from the seamline. Increase tension as necessary; bobbin threads should pull to the surface to form "stitches"; monofilament creates the "spaces" between stitches.

Notes

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Patchwork/Quilting

Outline Quilting
Thread the needle with cotton quilting thread. Select straight stitch and lower the feed dog. Move needle to the left as needed.

Attach Leather Roller Foot #55 to the machine.

Select the Straight Stitch with a length of 2.5mm.

Using needle and thread as a “pencil”, trace outlines about ¼” from the printed figures in the center strip of the quilt block. Foot #55 holds the fabric in place as you “roll” around the fabric.

If available, engage the Needle Stop Down function when quilting. This will cause the needle to always stop down in the fabric, lessening the chance of the fabric shifting each time stitching is stopped and started again.

Practice makes perfect. Before quilting, create a sample “quilt sandwich” using the same fabrics and batting as the actual project. Practice stitching perfect curves and corners. Even experienced quilters can always use a warm-up before stitching.

Owner’s manual: _____

Notes:

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Patchwork/Quilting

Stippling
Thread the needle with cotton quilting thread.

Select the Straight Stitch and lower the feed dog.

Attach Freemotion Quilting Foot #29/29C to the machine.

Using needle and thread as a “pencil”, doodle in the two “solid” patches, moving the fabric “paper” under the needle. It takes a bit of practice to get the hang of this; be patient and you’ll soon learn to coordinate hand movements and motor speed. Lines of stippling should not cross over each other, the stitches should be about 2.5mm long, and all lines should be curves.

This is one sewing technique that can be practiced with a pencil and paper. Practice your stippling technique by holding a pencil straight up and down and doodling in the “spaghetti” patterns of stippling stitches. Freemotion embroidery and quilting can be practiced in the same way.

Notes

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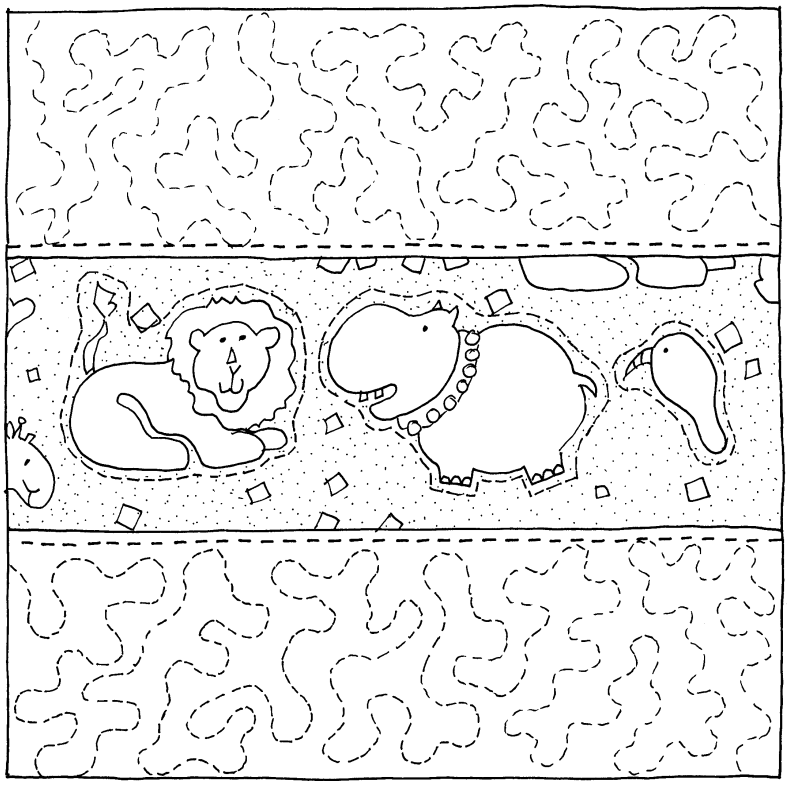
Patchwork/Quilting Sample



	1008	125	135PE	145	153QE	155	165	185	200
Straight Stitch	1	1	1	1	1	1	1	1	1
Hand-Look Quilt Stitch	--	13	20	20	21	62	328	328	328

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Applique

Fabric ..... 2 pieces woven cotton, 7” x 7”, two colors
..... 3” x 3” scrap of fabric in a third color for applique
Stabilizer ..... lightweight tear-away, 7” x 7”
..... 606 fusible spray adhesive
Notions ..... 12” of single fold bias tape
Needle ..... 80/12 Universal
Thread ..... 50 weight cotton
..... clear monofilament (“invisible” thread)
Presser Feet ..... Clear Foot #34/34C
..... Open Embroidery Foot #20/20C
..... Circular Embroidery Attachment #83
Stitches ..... straight
..... satin
..... blind
Needle Position ..... center

Preparation

Stack 7” x 7” fabrics squares, all right side up:
stabilizer on bottom,
one fabric in the middle,
the other fabric on top.

Mark a point on the top layer; this will be the center of the reverse applique circle.

Notes

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Applique - continued

Reverse Applique
Attach the Circular Embroidery Attachment #83 to the arm of the sewing machine. Remove the rubber cap from the pin. Place the layered fabric over the attachment, aligning the mark with the pin. Push fabric down over the pin, taking care not to pierce fingers. Replace cap on pin. Check the size of the circle by spinning the fabric around the pin. Adjust setting as necessary so that the edge of the circle is within the fabric square.

Attach Clear Foot #34/34C to the machine. Select straight stitch. Sew, letting the fabric turn around the pin as it feeds under the foot. Overlap ends ½".

Carefully remove fabric from attachment without moving the pin. Using sharp scissors, carefully trim away the topmost layer of fabric from within the circle. Replace fabric on pin, making sure that the pin pierces through the same point in the center of the circle.

Select a satin stitch (zigzag stitch with a stitch length of approximately 0.3mm). Adjust the width of the stitch to 3mm. Attach Open Embroidery Foot #20/20C to the machine. Stitch around the circle, covering the previous stitching and the raw edge of the cut fabric. Overlap stitching slightly at end; pull thread tails to back and knot.

Move point of attachment 1 notch away from the needle. Select the heart stitch (or other decorative stitch). Sew around the circle once more; the hearts form just outside the satin-stitched circle.

Owner's manual: _____

Notes:

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Applique - continued

Blanket Stitch Applique
Fuse applique shape(s) to base fabric as desired, using 606 fusible spray adhesive.

Thread needle with cotton thread. Attach Open Embroidery Foot #20/20C to the machine. Select the blanket stitch (adjust width to 3mm if necessary); mirror image if necessary so that the perpendicular stitches point to the left.

Stitch along all sides of the fused applique shape, with the straight portion of the stitch falling on the raw edge and the "points" stitching into the applique. At corners, use the Needle Stop Down function to stop with the needle down in the fabric. Move needle position to far right. Lower the feed dog. Stitch; since feed dog is lowered, the machine stitches in place, creating a handsewn look at the inner corner.

Engage feed dog. Use the Free Hand System to raise presser foot; pivot fabric. Lower the presser foot and continue sewing. If desired, use the triple blanket stitch for a portion of the applique.

Hand-Look Applique
Arrange bias strip on fabric as desired, creating a soft curve. Pin strip in place.

Select the quilting blindstitch (or a regular blindstitch with a width of 0.5mm). Attach Open Embroidery Foot #20/#20C to the machine. Thread the needle with monofilament thread. Move needle position to far right.

Applique strip in place, aligning the guide of the foot with the folded edges of the fabric. The straight part of the stitch should sew "in-the-ditch", while the zigzag portion barely bites into the folded edge of the applique.

Notes

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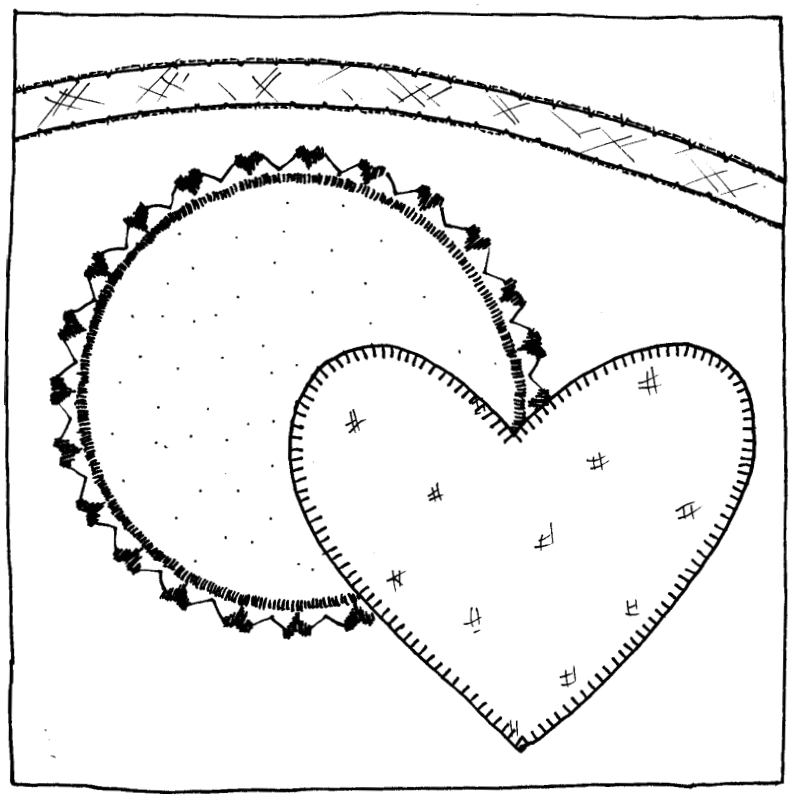
Applique Sample



	1008	125	135PE	145	153QE	155	165	185	200
Heart or Scallop Stitch	8	19	30	49	19	78	413	413	413
Blanket Stitch	--	14	9	21	25	21	329	329	329
Hand-Look Applique	3	7	7	7	7	65	331	331	331

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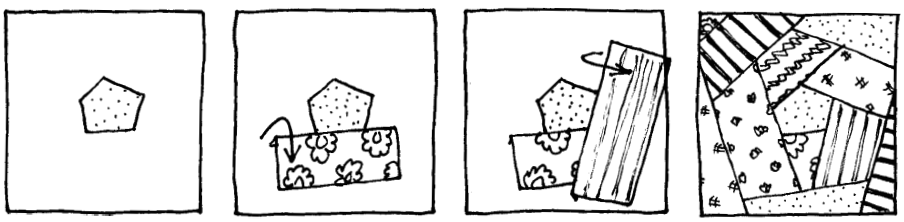
Surface Embellishment

Fabric ..... sturdy muslin, 7" x 7"
..... assorted 2½" x 9" strips (8-10 different fabrics)
Notions ..... cord, yarn or other round trim
..... small, stranded beads
..... narrow ribbon, 5mm wide (9mm for 185 & 200)
Needle ..... 80/12 Embroidery or Sharp
Thread ..... plain and variegated embroidery threads
..... heavy decorative threads
Presser Foot ..... Patchwork Foot #37
..... Open Embroidery Foot #20/20C
..... Braiding Foot #21/12C
..... Bulky Overlock Foot #12/12C
..... Black Latch or Supplementary Bobbin Case
Stitches ..... various stitches, as indicated
Needle Position ..... center

Preparation: Crazy Patchwork
Cut a 5-sided shape from one patchwork strip. Place right side up in center of muslin square. Select another patchwork strip; place right sides together with center patch, matching one raw edge. Stitch, stopping at the end of the first patch. Flip open; press.

Select a second patchwork strip. Place along the next edge of the center patch, over the previously stitched strip. Seam; flip; press. Trim excess fabric from underneath the strip.

Continue adding strips in this manner, working in a circular direction around the center patch, until the entire base fabric is covered. Straight stitch close to the outer edges of the muslin base fabric; trim excess fabric from around the edges of the square.



Notes

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Surface Embellishment - continued

Decorative Stitching
Attach Open Embroidery Foot #20/20C to the machine. Thread the needle with variegated embroidery thread.

Select an open floral stitch. Stitch over one of the patchwork seams, centering the stitch over the seam. Select a different stitch; sew another seam. Embellish seams as desired.

Bobbinwork
Wind a bobbin half full of heavy decorative thread, such as Designer 6 or Pearl Crown Rayon. Insert bobbin into Black Latch Bobbin Case (or an extra bobbin case); adjust (loosen, in most cases) tension screw as necessary.

Select a feather stitch. Place patchwork *right side down* under presser foot, with the muslin backing facing up. Stitch along one of the unembellished seam lines. When finished, turn block right side up; the bobbin thread is visible on the right side of the block and resembles hand stitched embroidery.

Repeat, using the entredeux stitch. The bobbinwork on the fabric surface forms small “roses”.

Couching Ribbon
Attach Open Embroidery Foot #20/20C to the machine.

Select a stipple, floral, or other decorative stitch. Place the ribbon over a seam; stitch in place, keeping edges of ribbon centered between the toes of Foot #20.

Couching Yarn:
Attach Braiding Foot #21/12C to the machine. Select a yarn or trim; thread through the opening in the front of the foot.

Select a ladder, double overlock, or universal stitch. Couch yarn or trim over a seam, centering yarn over the seam.

Owner’s manual: _____

Notes:

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Surface Embellishment - continued

Couching Beads: Select a triple zigzag stitch; adjust length and width to 5mm. Thread a strand of beads through the opening in Bulky Overlock Foot #21/12C.

Begin stitching; adjust stitch length so that stitches fall between beads. Continue stitching, couching beads over one of the patch-work seams.

Notes

	1008	125	135PE	145	153QE	155	165	185	200
Floral Stitch	--	--	27	38	20	23	106	106	106
Feather Stitch	--	15	22	23	26	66	332	332	332
Entredeux Stitch	--	16	23	43	--	21	701	701	701
Stipple Stitch	--	--	19	28	17	61	327	327	327
Ladder Stitch	--	--	--	44	--	43	702	702	702
Universal Stitch	4	--	17	17	--	19	15	15	15
Triple Zigzag Stitch	10	6	6	6	6	6	7	7	7

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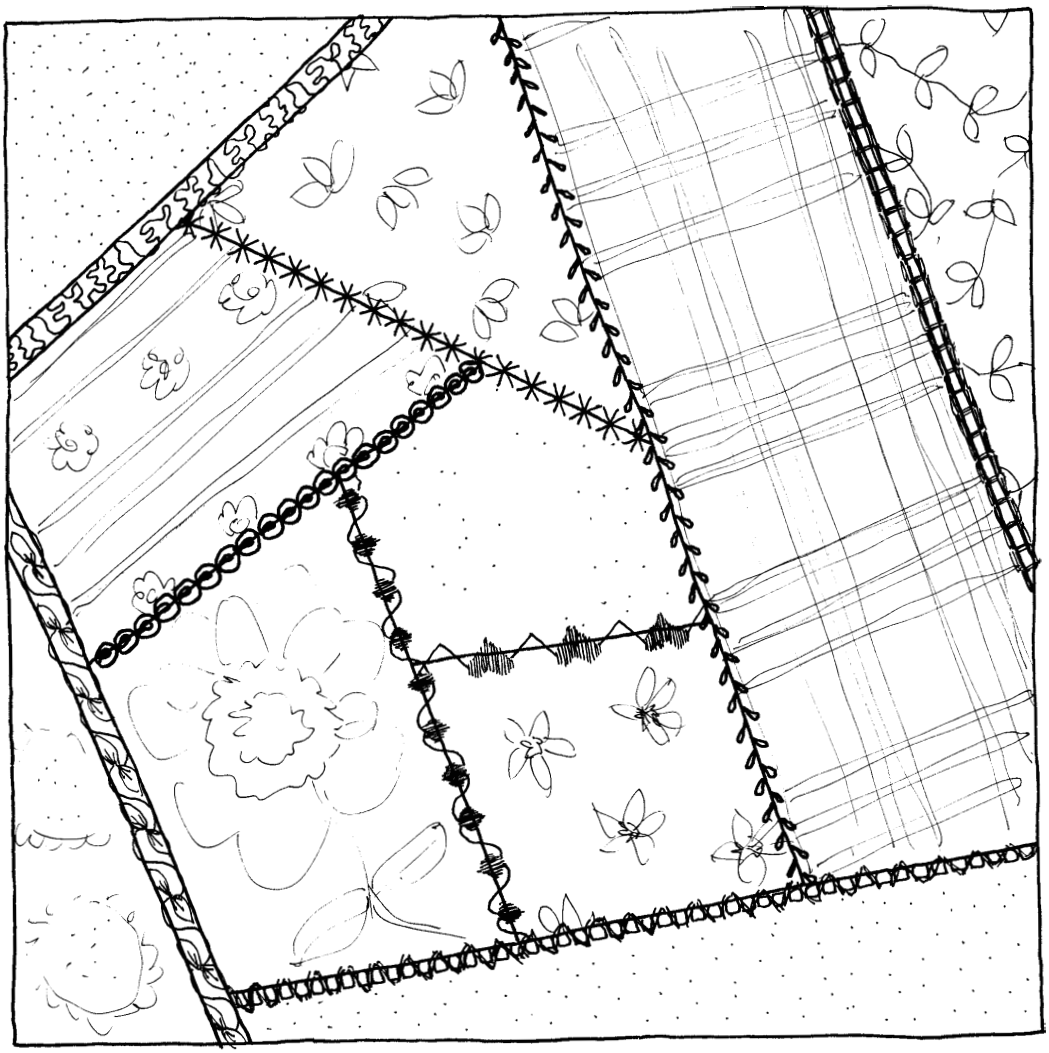
Surface Embellishment Sample



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Class 5
Product Reference List
More Decorative Stitching

- ❑ *Feet-ures,* Volumes 1 and 2
- ❑ Embroidery Foot #6
- ❑ Tailor Tack Foot #7
- ❑ Darning Foot #9
- ❑ Edgestitch Foot #10 ***or***
- ❑ Edgestitch Foot #10C
- ❑ Bulky Overlock Foot #12 or
- ❑ Bulky Overlock Foot #12C
- ❑ Zipper Foot with Guide #14
- ❑ Cording Foot #22
- ❑ Cording Foot #25
- ❑ Freemotion Quilting Foot #29 or
- ❑ Freemotion Quilting Foot #29C
- ❑ Invisible Zipper Foot #35
- ❑ Walking Foot #50
- ❑ Leather Roller Foot #55

- ❑ Secondary Bobbincase (Black Latch)
- ❑ BERNINA® Ironing System
- ❑ 505 Temporary Spray Adhesive
- ❑ Spring Hoops (for mending)
- ❑ Thread Stand
- ❑ Blunt Point Scissors (for lace)
- ❑ Cotton Batting
- ❑ Fusible Interfacing

Decorative Threads
- ❑ Metallic
- ❑ Rayon
- ❑ Cotton
- ❑ Polyester

"Invisible" Monofilament Thread (0.004 mm)
- ❑ Smoke
- ❑ Clear

Couching Threads
- ❑ YLI Candlelight
- ❑ YLI Pearl Crown Rayon
- ❑ YLI Designer 6
- ❑ Designer Threads (QRI)
- ❑ Ribbon Floss

Needles
- ❑ Single Wing
- ❑ Double Wing
- ❑ Quilting
- ❑ Embroidery

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Class 6
artista Extras
Class Overview

Function Sampler

1 Function Sampler

Memory Samples

2 Memory/Combi Mode
3 Memory/Sub-Divider 1 Sampler

Setup Program

Personal Program

Tutorial

Creative Consultant

Directional Stitching Samples

4 Compass
5 Free Form Directional
6 All-Over Directional
7 Trailing Tulip Vines
8 Monogram
9 Scalloped Edging
10 Stacked Scallops Edging
11 Quilt Designs
12 Directional Baubles

This class is formatted for owners of the following models of BERNINA® sewing machines:

- ***artista*** 165
- ***artista*** 185
- ***artista*** 200

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Function Sampler

Fabric ..... heavy muslin, 10” x 13”
Stabilizer ..... tear-away as needed
Needle ..... 90/14 Embroidery or Sharp
Thread ..... 30 weight cotton embroidery
Presser Feet ..... Clear Foot #34/#34C
..... Open Embroidery Foot #20/20C
..... Sideways Motion Foot #40C (185 & 200 only)
Stitches ..... as indicated
Needle Position ..... as indicated

Preparation

- Using 505 spray adhesive, adhere the stabilizer to the muslin.
- Mark the muslin for eleven rows of stitching, spaced approximately 1” apart. When stitching, align the back of the presser foot with the top edge of the fabric before beginning each row. *Note: See drawing on page 129.*

Row 1
Motor Speed

- Select straight stitch #1; sew down the 9" width of the fabric.
- Touching the Motor Speed symbol, change speeds as you sew.
- When stitching is complete, touch the Motor Speed symbol until full sewing speed is active again. *Note: Touching the external CLR button will not restore the Motor Speed to full; this must be done manually.*

Row 2
Needle Stop Adjustment

- Engage the Needle Stop Adjustment function so that the needle will stop DOWN in the fabric. Sew part of the row; stop. Using the heel of your foot, tap the foot control once to raise the needle.
- Continue sewing; stop again. Notice that the machine stops instantly, without coasting.
- When stitching is complete, touch the Needle Stop Adjustment symbol to engage the Needle Stop UP feature. *Note: Touching the external CLR button will **not** restore the Needle Stop position to UP; this must be done manually.*

Notes

CLR ALL
*On the **artista** 165 and 185, touching CLR ALL turns off ALL activated functions, including Motor Speed and Needle Stop adjustments.*

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Function Sampler - continued

Row 3
Continuous Reverse

- Select running stitch #4; sew approximately 3". Using the Free Hand System (FHS), raise the presser foot and move the fabric to the left about ¼".
- Select the Continuous Reverse function and continue stitching back to the beginning of the row. On the ***artista*** 185 and 200, use the Automatic Thread Cutter to clip the threads.
- Reposition the fabric approximately 1" below the previous stitching. Touch the Continuous Reverse function again to deactivate it. Select stitch #1; sew about 3 - 4" more; stop.
- Engage the Continuous Reverse function again. Sew. Notice that the reverse stitches are the same length as the forward ones and that the machine tracks perfectly.
- Clip threads (on the ***artista*** 185 and 200, use the Automatic Thread Cutter). Touch the external CLR button to turn off the function.

Row 4
Basting with the Long Stitch Function

- Select stitch #1; sew for approximately 1".
- Engage the Long Stitch function and sew another 2 - 3"; adjust stitch length to maximum and continue to sew.
- Before finishing the row of stitching, touch the external CLR button to cancel the alterations and turn off the long Stitch function. Finish sewing the row. This is an effective way to secure basting stitches.

Notes

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Function Sampler - continued

Row 5

Pattern Begin, Pattern Repeat 1-9x, Pattern End Button

- Select stitch #602. When a stitch is selected, Pattern Begin is automatically activated. It will automatically deactivate when you begin to stitch.
- Sew about 1½ stitch patterns; touch Pattern Begin, move fabric forward and stitch another 1½ patterns.
- Touch Pattern Begin and Pattern Repeat 3x. Move the fabric slightly forward and stitch until the machine stops. On the ***artista*** 200, notice that while you stitch, the Pattern Repeat function counts down the number of pattern repeats left to sew.
- Begin sewing again; while stitching, touch the external Pattern End button (above the Quick Reverse button on the ***artista*** 165 and 200) or Pattern End function (on the function bar of the ***artista*** 185). When selected, Pattern End stops the machine at the end of the current stitch.
- Touch the external CLR button to cancel the active functions

Row 6

Stitch Selection by Number, Securing Functions

- *(**artista** 185 & 200 only)* Use the Stitch Selection by Number function to select stitch #514; engage Pattern Repeat 1x.
- *(**artista** 185 & 200 only)* Attach Sideways Motion Foot #40 to the ***artista***. Sew. Sideways motion motifs must be guided carefully; do not allow the fabric to turn while stitching.
- Engage the Securing function and stitch the motif again. Three small stitches are sewn at the beginning and end of the motif. Rows of stitching can also be secured at the beginning and end.
- Use the Stitch Selection by Number to select stitch #711; engage Pattern Repeat 4x and the Securing function. Begin sewing (***artista*** 165/185: disengage Securing function after the stitching first repeat). Before reaching the end of the row, stop and reengage the Securing function to secure the stitching at the end of the row.
- Touch the external CLR button to cancel the active functions.

Notes

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Function Sampler - continued

Row 7
Mirror Image

- Select stitch #907; engage Pattern Repeat 1x. Stitch one turtle.
- Engage Vertical Mirror Image; sew one turtle.
- Disengage Vertical Mirror Image, engage Horizontal Mirror Image, and sew one turtle.
- Engage both Vertical and Horizontal Mirror Image; sew one turtle.
- Touch the external CLR button to cancel active functions.

Row 8
Pattern Extend 2-5x

- Select stitch #414; engage Pattern Repeat 1x. Sew one stitch pattern.
- Engage Pattern Extend 2x; sew one stitch pattern.
- Engage Pattern Extend 3x; sew one stitch pattern.
- Engage Pattern Extend 4x; sew one stitch pattern.
- Engage Pattern Extend 5x; sew one stitch pattern.

  *Note: As the stitch pattern is lengthened, stitch density is maintained. Your **artista** also limits the Pattern Extend capacity of stitches within your machine to ensure the best results for your sewing projects.*

- Touch the external CLR button to cancel active functions.

Notes

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Function Sampler - continued

Row 9
Balance
Balance is a function generally reserved for "fine tuning" the appearance of a stitch based on sewing variations due to differences in fabrics and threads. Balance, however, can also be used as a creative tool to manipulate the look of a stitch. For example, it can be used to alter the appearance of stipple stitch #327.

- Select stitch #327; sew.
- You may prefer a less compact stipple stitch, so engage Pattern Extend 2x and adjust the stitch length to 3mm. Sew. The stitch has been opened up a bit, but you can use the Balance function to do even more. See balance instructions below.
- In this exercise we want to use the Balance function to manipulate the appearance of a stitch, not to correct it. Adjust the balance as indicated in the box below for your ***artista***. Touch OK and stitch.
- Touch the CLR button to cancel the active functions.

Notes

Balance Function

*Note: On all **artista** models, balance affects only the selected stitch.*

***artista* 165**

- Select the Balance function. Three pictures appear on the screen; the center one shows the stitch in its "perfect"form; the images on the sides show the stitch "stretched" and "compacted". Use the arrows to adjust the balance, adding or subtracting space. Stitch a sample; continue adjusting as needed to achieve the desired stitch appearance.
- For sample, press the down arrow until "5" appears.

***artista* 185**

- Select the Balance function. Three pictures appear on the screen; the center one shows the stitch in its "perfect"form; the images on the sides show the stitch "stretched" and "compacted". Use the arrows to adjust the balance, adding or subtracting space. Stitch a sample; continue adjusting as needed to achieve the desired stitch appearance.
- For sample, press the down arrow until "5" appears. *Note: When using sideways motion stitches, horizontal balance is also available.*

***artista* 200**

- Select the Balance function. Two pictures appear on the screen: the two images show the stitch in its original form. Using the Stitch Length knob, adjust the stitch image on the right so that it looks exactly like the stitch sample sewn on your fabric. Touch OK; the ***artista*** 200 automatically corrects the stitch while sewing, calculating the proper balance to achieve the appearance of the original stitch (left screen).
- For sample: Adjust the balance using the Stitch Length knob; turn until 5 is selected.

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Function Sampler - continued

Row 10
Double/Wing Needle Limitation *(artista* 165/185)
Security Program *(artista* 200)

***artista* 165/185**

- Insert a 1.0 Double needle into the ***artista***. Thread with two different colors.
- Select stitch #406 and Pattern Repeat 2x. Sew.
- Activate the Double Needle Limitation function and continue pressing the icon to select 8.0 on the ***artista*** 185, 4.0 on the ***artista*** 165. Sew.
- Continue this process for the remaining Double Needle options: 6.0 (***artista*** 185 only), 4.0, 3.0, 2.0, 1.0.
- When all Double Needle stitching is complete, touch the CLR button. Notice that it does NOT clear the Security Program.
- To disengage the Double Needle Limitation function, continue pressing the icon until there is no number appears. The Double Needle Limitation function can also be disengaged by pressing CLR ALL, which turns off ALL other activated functions.

***artista* 200**

- Insert a 1.0 Double needle into the ***artista***. Thread with two different colors.
- Select stitch #406 and Pattern Repeat 2x. Sew.
- Activate the Security Program; select Double Needle 8.0. Touch OK. Sew.
- Continue this process for the remaining Double Needle options: 6.0, 4.0, 3.0, 2.0, and 1.0.
- When all Double Needle stitching is complete, touch the CLR button. Notice that it does NOT clear the Security Program.
- Turn your ***artista*** off. Turn back on. Notice that the Security Program is still active, and that a message appears on the screen to remind you of this.
- The Security Program can only be deactivated by selecting the Security Program and manually selecting the Single Needle and 9mm Stitch Plate options. Confirm changes by pressing OK.

Notes

Needle Limitation & Security Program

The Double/Wing Needle Limitation function of the **artista** 165/185 and the Security Program of the **artista** 200 safely restrict the sideways motion of the needle when using Double, Triple, and Wing needles. The Security Program of the **artista** 200 also restricts needle movement when using a Double Wing needle, or the Straight Stitch or 5mm Stitch Plates. When active, the Double/Wing Needle Limitation function and Security Program affect ALL stitches, not just the selected stitch.

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Function Sampler - continued

Row 11
Stitch Counter Seam *(artista 200 only)*
*The Stitch Counter function of the **artista** 200 is not for buttonholes only. It can also be used to measure and stitch seams of a specific length. Useful for patchwork piecing and other seaming techniques.*

- Mark a 3” seam length on the fabric by drawing two parallel lines, 3” apart. Select stitch #326. Select the Stitch Counter function. Stitch along the marked line. When the desired length is sewn, press the Quick Reverse button. The seam is now programmed.
- Move the fabric back to the beginning of the seam. Sew. The ***artista*** 200 automatically stops at the end of the programmed seam.
- Stitch the programmed seam again.
- A variety of stitches can be sewn using the Stitch Counter function. Several are found in the Practical stitch menu, such as Zigzag and Blindstitch. Others include the Blanket and Double Blanket stitches from the Quilting stitch menu.

Notes

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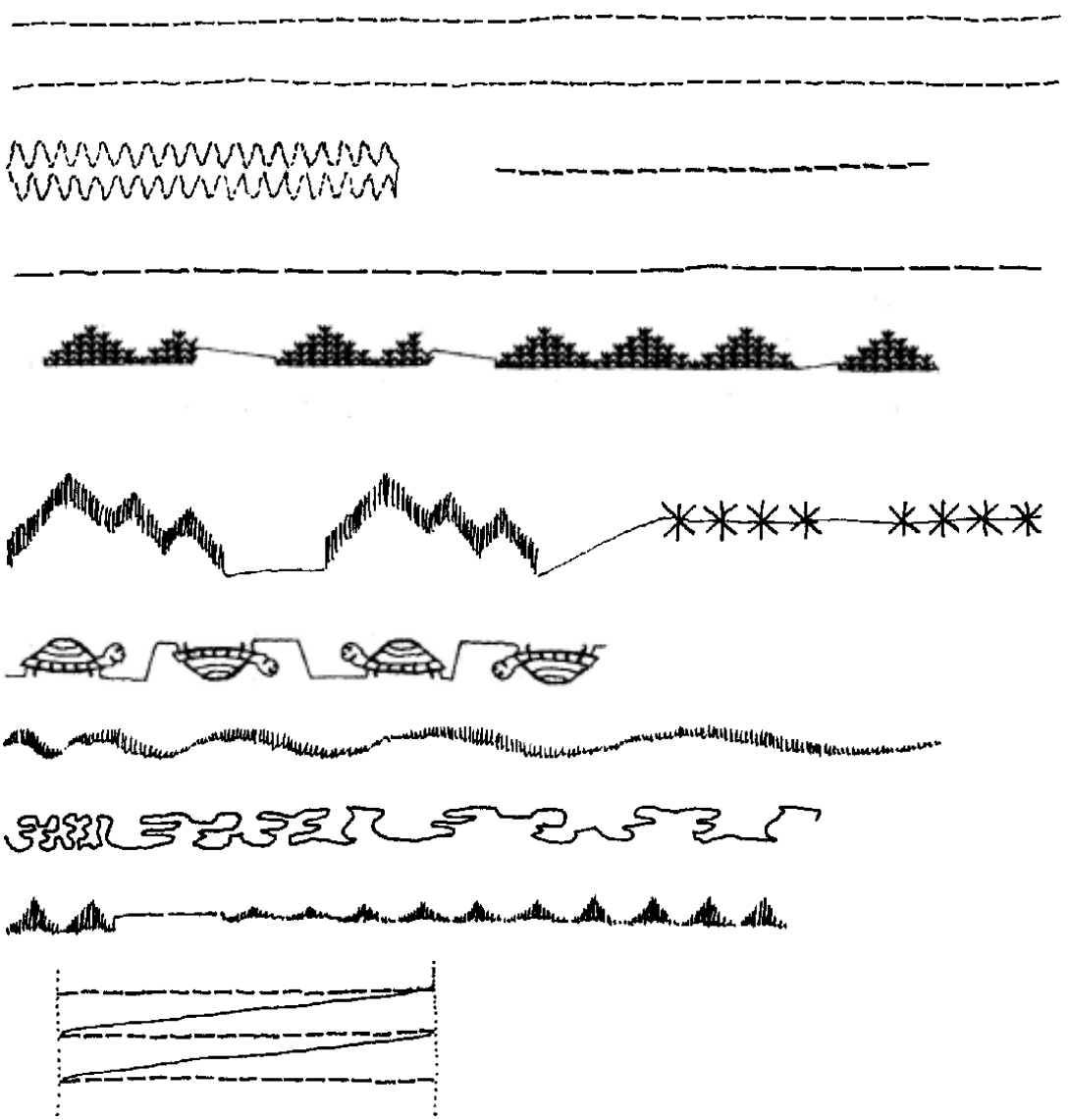
Function Sampler



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Memory/Combi Mode

Fabric ..... heavy muslin, 9" x 9"
Stabilizer ..... tear-away as needed
Needle ..... 90/14 Sharp or Embroidery
Thread ..... 30 weight cotton embroidery
Presser Foot ..... Reverse Pattern Foot #1/1C or
..... Clear Foot #34/34C
Stitch ..... as indicated
Needle Position ..... center

artista 165/185:

The following parameters can be altered separately for EACH STITCH within the combination:

- Stitch Length
- Stitch Width
- Needle Position
- Tension
- Balance
- Long Stitch
- Pattern Extend 2-5x
- Vertical Mirror Image
- Horizontal Mirror Image
- Securing Function
- Motor Speed
- Sub-Divider 1

The following parameters can be altered for the ENTIRE STITCH COMBINATION (as one unit):

- Securing Function

artista 200:

The following parameters can be altered separately for EACH STITCH within the combination:

- Stitch Length
- Stitch Width
- Needle Position
- Tension
- Balance
- Long Stitch
- Pattern Extend 2-5x
- Vertical Mirror Image
- Horizontal Mirror Image
- Securing Function
- Sub-Divider 1
- Sub-Divider 2

The following parameters can be altered for the ENTIRE STITCH COMBINATION (as one unit):

- Motor Speed
- Vertical Mirror Image

Notes

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Memory/Combi Mode continued:

Preparation

all artista sewing systems: Using a spray adhesive such as 505, adhere the stabilizer to the muslin. Mark six parallel lines on the fabric, approximately 1½" apart.

Row 1
Creating and Saving a Stitch Combination

artista 165/185:	***artista 200:***
• Touch the Mem button. The memory bar appears on the screen, ready for stitch input.	• Touch the Combi Mode symbol. The Stitch Altering Area (SAA) appears, ready for stitch input.
• Select stitch #120. It is automatically entered into the memory bar.	• Select stitch #145. It is automatically entered into the Stitch Altering Area. Notice that the background of the selected stitch is BLUE and that there is a RED cursor along the lower edge of the selected stitch.
• Select stitch #120 again.	• Select stitch #145 again. Notice that the first #145 is not active.
• To edit stitches in the memory bar, simply touch the arrows to scroll to move the cursor just to the right of the desired stitch, then touch Edit.	• To edit stitches in Combi Mode, simply touch the screen to activate the desired stitch (the selected stitch will turn BLUE), then select the alterations.
• With the second #120 selected, touch Edit, then engage the Horizontal Mirror Image Function. Touch Edit again to return to the previous screen.	• With the second #145 selected, touch Edit, then engage the Horizontal Mirror Image Function.
• Touch Mem. Choose a memory bank in which to save the stitch combination. Select OK.	• Touch the Multi-Function button, Select Save Combination; save this combination in a folder.
• Engage Pattern Repeat 4x. Sew.	• Engage Pattern Repeat 4x. Sew.

Notes

Mirror Image Icons - Function Bar

artista 165/185
Horizontal (Up/Down)

Vertical (Right/Left)

artista 200
Horizontal (Up/Down)

Vertical Mirror Image

Mirror Image Icons - Edit Box

Note: Stitches are oriented differently in the Edit Box than in the main menu.

artista 165/185
Horizontal (Right/Left)

Vertical (Up/Down)

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Memory/Combi Mode continued:

Row 2
Inserting Stitches - Exercise A

artista 165/185:	*artista 200:*
• Your previous stitch combination should still be visible in the memory bar.	• Your previous stitch combination should still be visible in the Stitch Altering Area.
• Move the cursor to the left of the first stitch #120. You will be inserting a stitch in front of this one. *Note: All alterations, insertions, and deletions always affect the area to the* ***left*** *of the cursor.*	• Touch the first stitch pattern (it should turn BLUE). You will be inserting a stitch in front of this one. Use the UP scroll arrow to move the cursor to the TOP of the first stitch pattern. *Note: All alterations, insertions, and deletions always affect the area* ***above*** *the cursor.*
• Select stitch #113; it appears to the left of the first stitch #120. With stitch #113 selected, select Edit and engage the Horizontal Mirror Image function.	• Select stitch #137; it appears above the first stitch #145. With stitch #137 selected, engage the Horizontal Mirror Image function.
• Scroll to the end of the combination. Select stitch #113; it will be inserted into the stitch combination.	• Scroll to the end of the combination, or touch the last stitch pattern. Select stitch #137; it will be inserted into the stitch combination.
• Touch Mem. Save this stitch combination in a different memory bank than Row 1.	• Touch the Multi-Function symbol. Select Save Combination. Save this stitch combination in a different folder than Row 1.
• Engage Pattern Repeat 3x; sew.	• Engage Pattern Repeat 3x; sew.

Notes

Mirror Image Icons - Function Bar

artista 165/185
Horizontal (Up/Down)

Vertical (Right/Left)

artista 200
Horizontal (Up/Down)

Vertical Mirror Image

Mirror Image Icons - Edit Box

Note: Stitches are oriented differently in the Edit Box than in the main menu.

artista 165/185
Horizontal (Right/Left)

Vertical (Up/Down)

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Memory/Combi Mode continued:

Row 3
Inserting Stitches - Exercise B

artista 165/185:

- The previous stitch combination (Row 2) should still be visible in the memory bar.
- Insert stitch #401 at the beginning of the combination. Insert stitch #401 two times at the end of the combination.
- Touch Mem. Save this stitch combination in a different memory bank than previous rows.
- Engage Pattern Repeat 2x; sew. This combination isn't quite as pretty as one might like, so it will be altered for Row 4.

artista 200:

- The previous stitch combination (Row 2) should still be visible in the Stitch Altering Area (SAA).
- Insert stitch #401 at the beginning of the combination. Insert stitch #401 two times at the end of the combination.
- Touch the Multi-Function icon; select a different folder for the Row 3 combination.
- Engage Pattern Repeat 2x; sew. This combination isn't quite as pretty as one might like, so it will be altered for Row 4.

Notes

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Memory/Combi Mode continued:

Row 4 - Altering and Deleting Stitches - Exercise A

all artista sewing systems:
Select the first stitch (#401) in the combination, then touch the Delete symbol.

Select the next to last stitch, #401. Engage the Horizontal Mirror Image function (***artista*** 165/185: use the functions in the Edit box).

Save this combination in the same memory bank as Row 3; it will overwrite the previous combination.

Engage Pattern Repeat 2x; sew. While the second repeat is stitching, touch Pattern End as the second leaf is sewn; the artista will stop at the end of the leaf. *Note: The Pattern End button signals your **artista** to complete the current stitch pattern and then stop.*

Note: When a stitch combination is being sewn, selecting the Pattern End function will stop the machine at the end of the current stitch, not at the end of the current combination.

Notes

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Memory/Combi Mode continued:

Row 5 - Inserting Stitches - Exercise C

artista 165/185:

- Combine the following stitches in an empty memory bank.

  - stitch #144, one time
  - stitch #712, one time
  - stitch #744, one time
  - stitch #712, 1x
  - stitch #144, 1x

- Save Row 5 in a different memory bank.

- Engage Pattern Repeat 1x; sew.

artista 200:

- Touch the File Drawer symbol. Select an empty folder. Combine the following stitches:

  - stitch #740, one time
  - stitch #751, one time
  - stitch #744, one time
  - stitch #751, 1x
  - stitch #740, 1x

- Touch the Multi-Function symbol. Select the Preview option. Touch the Binocular symbol to access the second level of Preview, the Sewing View. Touch ESC.

- Touch the Multi-Function button. Select the Save Combination option. Save in a new folder.

- Engage Pattern Repeat 1x; sew.

Notes

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Memory/Combi Mode continued:

Row 6 - Altering and Deleting Stitches - Exercise B

artista 165/185:

- The previous stitch combination should still be visible in the memory bar.
- One by one, select each stitch in the memory bar and use the Edit function and Vertical Mirror Image to mirror each stitch.
- Save this stitch combination in a new memory bank.
- Engage Pattern Repeat 1x; sew.

artista 200:

- The previous stitch combination should still be visible in the Stitch Altering Area (SAA).
- Touch the Multi-Function symbol. Select the Mirror Image Combination Option. Touch the Multi-Function symbol. Select the Preview Option. Touch the Binocular symbol to see the Sewing View. Your stitch combination appears on the screen as a mirror image of the original combination. Touch ESC.
- Touch the Multi-Function symbol. Select the Save Combination option. Save Row 6 in a new folder.
- Engage Pattern Repeat 1x; sew.

Notes

Mirror Image Icons - Function Bar

artista 165/185
Horizontal (Up/Down)

Vertical (Right/Left)

artista 200
Horizontal (Up/Down)

Vertical Mirror Image

Mirror Image Icons - Edit Box

Note: Stitches are oriented differently in the Edit Box than in the main menu.

artista 165/185
Horizontal (Right/Left)

Vertical (Up/Down)

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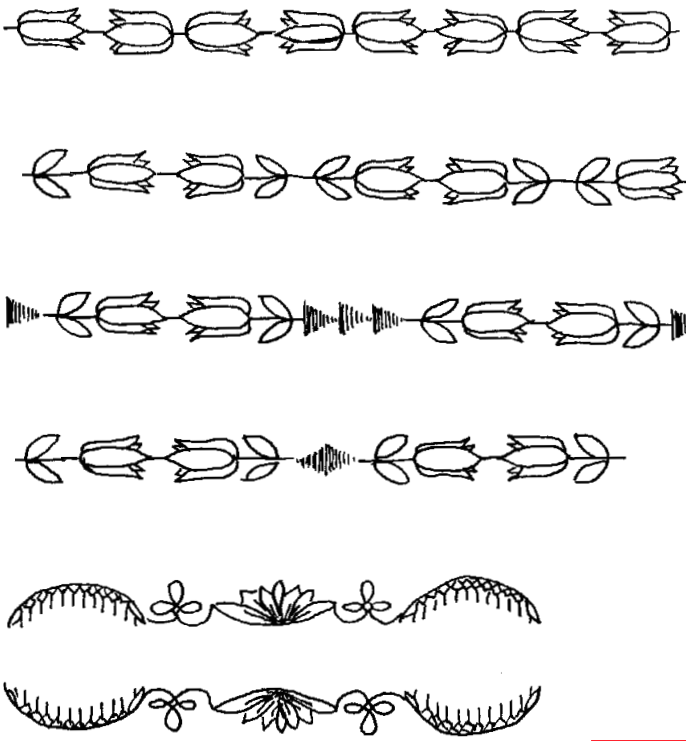
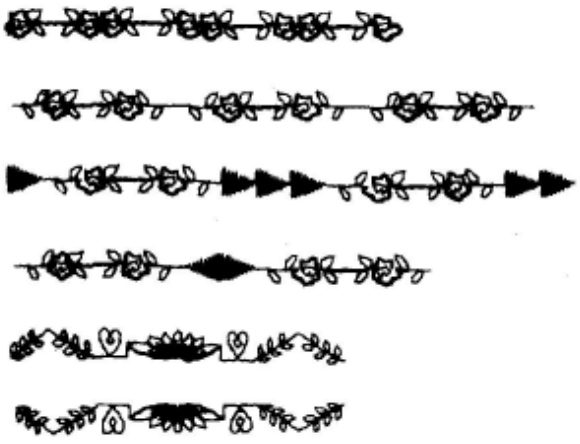
Memory/Combi Mode Sample

***artista** 200*



***artista** 165 & 185*



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Memory/Sub-Divider 1 Sampler

Fabric ..... heavy muslin, 6" x 11"
Stabilizer ..... tear-away
Needle ..... 90/14 Universal
Thread ..... 30 weight cotton embroidery
Presser Foot ..... Reverse Pattern Foot #1/1C
Stitch ..... decorative stitches as indicated
Needle Position ..... center

*The Customized Pattern Selection (CPS) software for the **artista** 165-185 allows you to further customize your **artista** by installing your favorite stitches and embroidery motifs.*

- Following the instructions included with the CPS software, install the following stitches on your ***artista***:
  - ***artista*** 165: #137, #145, #448
  - ***artista*** 185: #137

  *Note: all stitches are already on the **artista** 200*

- Combine the following stitches in Combi Mode:
  - stitch #137 + Horizontal Mirror Image
  - stitch #145
  - stitch #145 + Horizontal Mirror Image
  - stitch #137
  - Sub-Divider 1

- After the Sub-Divider 1, enter the following stitches:
  - stitch #448 + Horizontal AND Vertical Mirror Image
  - stitch #137 + Horizontal Mirror Image
  - stitch #145
  - stitch #145 + Horizontal Mirror Image
  - stitch #137
  - stitch #448
  - Sub-Divider 1

- Save this stitch combination.

Instructions for sewing this sample are on pages 138-139.

Notes

Mirror Image Icons - Function Bar

artista 165/185
Horizontal (Up/Down)

Vertical (Right/Left)

artista 200
Horizontal (Up/Down)

Vertical Mirror Image

Mirror Image Icons - Edit Box

Note: Stitches are oriented differently in the Edit Box than in the main menu.

artista 165/185
Horizontal (Right/Left)

Vertical (Up/Down)

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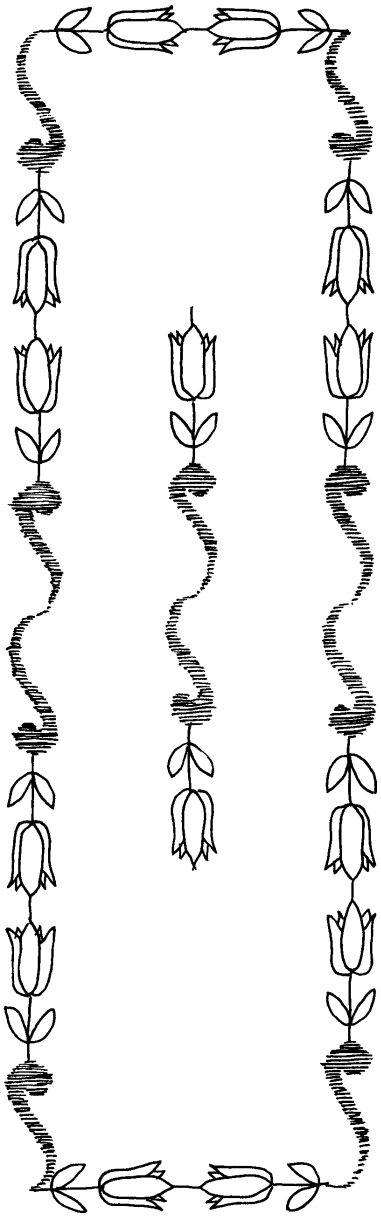
Memory/Sub-Divider 1 Sampler



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Memory/Sub-Divider 1 Sampler continued:

Stitching Outer Rectangle

all artistas - 165/185/200

- Using a temporary spray adhesive, bond the stabilizer to the muslin.
- Scroll to select the first section of the saved stitch combination. Activate Pattern Begin and Pattern Repeat 1x.
- Sew; at the end of the stitching, stop down on the heel of the foot control to move the needle into the down position. Pivot 90º, then use the foot control to move the needle to the up position.
- Scroll to the second section of the stitch combination. Activate Pattern Begin and Pattern Repeat 2x. Sew; the ***artista*** will automatically stop after the second repeat. *Note: When the Sub-Divider is used, the* ***artista*** *will stitch multiples of ONLY the selected section.* When the second repeat is complete, use the foot control to move the needle to the down position. Pivot 90º, then use the foot control to move the needle to the up position.
- Scroll to the first section of the stitch combination. Activate Pattern Begin and Pattern Repeat 1x. Sew; at the end of the stitching, move the needle to the down position. Pivot 90º, then use the foot control to move the needle to the up position.
- Scroll to the second section of the combination. Activate Pattern Begin and Pattern Repeat 2x. Sew. This completes the stitching of the rectangle.

Notes

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Memory/Sub-Divider 1 Sampler continued:

Stitching Center Motif

artista 165/185:

- The center motif is about 4" long. Draw a line through the center of the stitched rectangle to use as a guide.
- Scroll to move the cursor just to the right of the *second* tulip in the *second* section of the stitch combination.
- Sew; the ***artista*** will stitch the end of the combination and automatically begin sewing it a second time.
- Sew, watching stitching. After the tulip begins stitching, press the Pattern End button on the front of the ***artista***; sewing will stop at the end of the tulip.

artista 200:

- The center motif is about 4" long. Draw a line through the center of the stitched rectangle to use as a guide.
- Select the Multi-Function button. Select the Preview option. Scroll to move the cursor just to the right of the *second* tulip in the *second* section of the stitch combination. Notice that every stitch in the combination is numbered.
- Select the 9th stitch (tulip). When the stitch is selected, the Preview screen automatically closes. The ***artista*** 200 will begin stitching at the beginning of stitch nine (unless the cursor is moved again).
- Sew; the ***artista*** 200 will stitch the end of the combination and automatically begin sewing it a second time.
- Sew, watching stitching. After the tulip begins stitching, press the Pattern End button on the front of the ***artista***; sewing will stop at the end of the tulip.

Notes

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Setup Program

Allows personalization of your sewing system to reflect your sewing style, needs, and preferences. To access, press the external Setup button.

artista 165/185:

Screen Contrast
- adjust the appearance of the screen for the lighting conditions in your sewing area

Start Screen
- turn start screen off/on

Sewing Light
- turn sewing light off/on

Motor Speed
- adjust the overall sewing speed of your sewing system

Thread Tension (185 only)
- adjust the overall tension setting of your sewing system

Functions
- personalize the Function Bar and Favorite Function button to reflect the functions you use most often

Service>Screen
- calibrate the touch screen of your sewing system

Service>Version
- access information on the software version installed in your machine and embroidery module

artista 200:

Display>Brightness & Display>Contrast
- adjust the appearance of the screen for the lighting conditions in your sewing area

Display>Welcome Text
- change greeting

Sewing Setting>Sewing Light
- turn sewing light off/on

Sewing Settings>Motor Speed
- adjust the overall sewing speed of your sewing system
  *Note: the **artista** 200 has a separate motor speed screen for embroidery; to access, touch the Embroidery Settings symbol*

Sewing Settings>Thread Tension
- adjust the overall tension setting of your sewing system
  *Note: the **artista** 200 has a separate tension screen for embroidery; to access, touch the Embroidery Settings symbol*

Customize Favorite Function
- assign the function of your choice to the Favorite Function button

Touch>Calibrate
- calibrate the touch screen of your sewing system

Software & Language
- access information on the software version installed in your machine and embroidery module

Notes

Sewing Tension

The tension of BERNINA® sewing machines is factory set for the best "all around" results using Mettler polyester Metrosene thread in the needle and bobbin. If you regularly use other types of thread, you may find it useful to adjust your tension settings using the Thread Tension Adjustment in the Setup Screen.

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Setup Program - continued

artista 165/185:

Service>Adjustment of Hoop
- adjust the reference point of the embroidery module

Auto Thread Cutter
- turn embroidery thread cutter off/on

Beeper
- turn audio signals off/on
- choose from a range of signals for each function:
  - Select Stitch
  - Select Function
  - Upper Thread Control
  - Lower Thread Control (185 only)
  - Feed Dog Position
  - Presser Foot Position
  - Bobbin Winder
  - Embroidery Finished

Stitch Length, Stitch Width, & Needle Position
- permanently set stitches to suit your personal preferences

- the following settings can be modified permanently:
  - Stitch Length
  - Stitch Width
  - Needle Position

artista 200:

Emb Set>Adjust Ref Position
- adjust the reference point of the embroidery module

Emb Set>Auto Thread Cutter
- turn embroidery thread cutter off/on

Messages & Audio Signals
- turn audio signals off/on
- choose from a range of signals for each function:
  - Select Stitch
  - Select Function
  - Upper Thread Control
  - Lower Thread Control
  - Feed Dog Position
  - Presser Foot Position
  - Bobbin Winder
  - Embroidery Finished
  - Thread Cutter
  - Threader

Stitch Altering Area
- permanently set stitches to suit your personal preferences

Note: to access , touch the SAA; a pop-up menu appears on screen

- the following settings can be modified permanently:
  - Stitch Length
  - Stitch Width
  - Needle Position
  - Tension
  - Balance
  - Vertical Mirror Image
  - Horizontal Mirror Image
  - Pattern Extend 2-5x
  - Long Stitch
  - Pattern Repeat 1-9x

Notes

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Setup Program - continued

artista 165/185:

Personal Program
- create a personal menu of stitches, including your favorite settings:
  - Stitch Length
  - Stitch Width
  - Needle Position

Return to Basic Settings
- returns all settings - sewing ***and*** embroidery - to the original factory settings

esc & Leave Setup
- closes the Setup Screen without making changes
- returns to previously selected screen

Thread Brand
- select the brand of thread displayed on embroidery screen

artista 200:

Personal Program Button
- create a personal menu of stitches, including your favorite settings:
  - Stitch Length
  - Stitch Width
  - Needle Position
  - Tension
  - Balance
  - Vertical Mirror Image
  - Horizontal Mirror Image
  - Pattern Extend 2-5x
  - Long Stitch
  - Pattern Repeat 1-9x

Portal Provider Settings
- set up a phone connection for optional ***artista*** 200 modem
- allows access to a special ***artista*** 200 portal for News, Downloads, and Tutorials

Return to Basic Settings
- returns all settings - sewing and/or embroidery - to the original factory settings

esc & Leave Setup
- closes the Setup Screen without making changes
- returns to previously selected screen

Notes

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Tutorial

artista 165/185:
*The **artista** Tutorial acts as an "on-line" manual with instructions for a variety of sewing and embroidery topics*

- press the external TTC button
- Select Tutorial.
- Select the desired category from those listed:
  - Beginning to Sew
  - Free Hand System (FHS)
  - Help
  - Tips & Tricks
  - Customized Pattern Selection software (CPS)
  - Embroidery Module
  - Embroidery Software
- Information is displayed in the form of text.

artista 200:
*The **artista** Tutorial acts as an "on-line" manual with instructions for a variety of sewing and embroidery topics*

- Press the external T button
- Select the desired category from those listed:
  - Threading
  - Sewing Techniques
  - Buttonholes
  - Peripherals
  - Embroidery
  - Free Hand System (FHS)
  - Trouble Shooting
  - Presser Feet
  - Needles
- Information is displayed in the form of text, color diagrams, and video clips. *Note: Attach the BERNINA® CD-ROM drive to your **artista** and insert the Tutorial CD to access additional video clips.*

Notes

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Creative Consultant

artista 165/185:
artista *sewing systems have an internal "sewing consultant" that provides a wide range of sewing information and instructions.*

- Press the external TTC button
- Select Creative Consultant.
- Select the appropriate fabric type from the menu of light-weight, mediumweight, and heavyweight fabrics.
- Select the desired sewing technique:
  - Seaming
  - Overcasting
  - Topstitching
  - Buttonhole
  - Zipper
  - Decorative Work
  - Machine Quilting
  - Freemotion Work
  - Applique
  - Sideways Motion (185 only)

artista 200:
artista *sewing systems have an internal "sewing consultant" that provides a wide range of sewing information and instructions.*

- Press the external C button
- Select the appropriate fabric type from the menu of light-weight, mediumweight, and heavyweight fabrics.
- Select the desired sewing technique:
  - Seaming
  - Overcasting
  - Edgestitching
  - Blindhem
  - Buttonhole
  - Zipper
  - Invisible Zipper
  - Decorative Work
  - Machine Quilting
  - Freemotion Work
  - Applique
  - Sideways Motion

Notes

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Creative Consultant - continued

artista 165/185:

- The Creative Consultant displays the following recommendations:
  - Presser foot and alternates
  - Needle and alternates
  - Presser foot pressure
  - Stabilizer
  - Feed dog up/down
  - Additional accessories
  - Additional comments
  - Tension setting

- After selecting fabric and technique, press OK to have the ***artista*** go to the recommended stitch.

artista 200:

- The Creative Consultant displays the following recommendations:
  - Presser foot and alternates
  - Needle and alternates
  - Presser foot pressure
  - Stabilizer
  - Feed dog up/down
  - Additional accessories
  - Additional comments
  - Tutorial links

- After selecting fabric and technique, press OK to have the ***artista*** 200 go to the recommended stitch and adjust settings for:
  - Stitch length
  - Stitch width
  - Needle position
  - Tension
  - Balance
  - Needle stop up/down
  - Maximum sewing speed

Notes

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Directional Stitching

(*artista* 185 & 200 only)

Fabric	firm fabric, 6” x 6”
Stabilizer	heavyweight tear-away, 6” x 6”
Needle	90/14 Embroidery
Thread	30 weight cotton embroidery
Presser Foot	Sideways Motion Foot #40C
Stitch	directional zigzag
Needle Position	center

Mark the center of the square of fabric. Place stabilizer behind fabric, bonding with a light application of 505 temporary adhesive.

Starting at the center of the fabric, stitch all 16 directions using the preprogrammed directional zigzag stitch #40. Note the changes in the stitch formation that occur with changes in sewing direction.

Trim and mount the sample.

Notes

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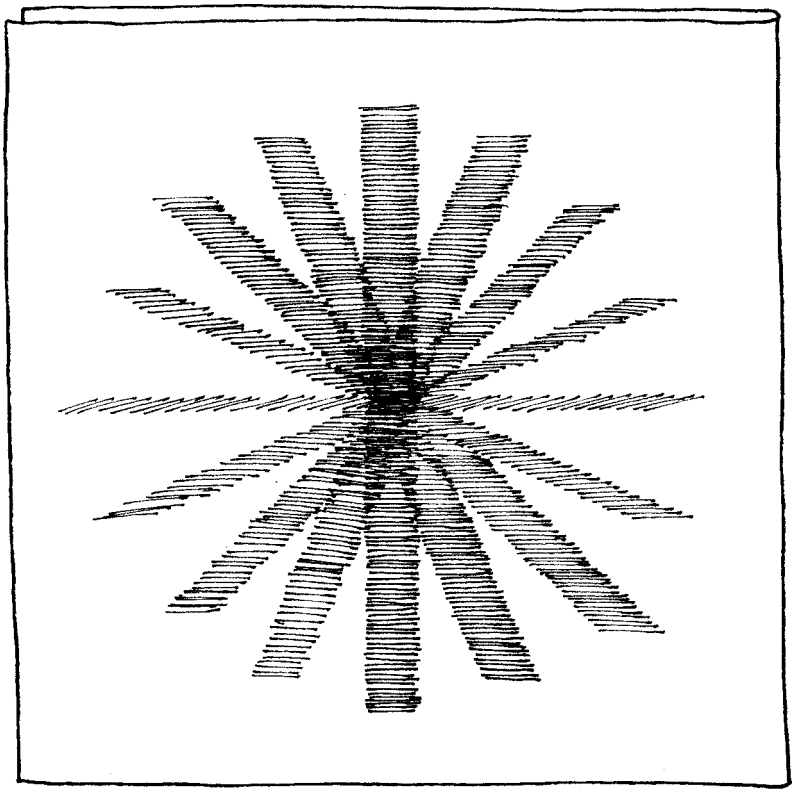
Directional Stitching Sample



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Free-Form Directional Stitching

(*artista* 185 & 200 only)

Fabric ..... firm fabric, 6” x 6”
Stabilizer ..... heavyweight tear-away, 6” x 6”
Needle ..... 90/14 Embroidery
Thread ..... 30 weight cotton embroidery
Presser Foot ..... Sideways Motion Foot #40C
Stitch ..... directional straight stitch
..... directional zigzag stitch
Needle Position ..... center

Select directional straight stitch #39, then choose a direction from the compass template that appears on the screen. Stitch 1” to 2”.

Select a different direction. Stitch a couple inches.

Select another direction; stitch.

Continue selecting directions and stitching.

Repeat using directional zigzag stitch #40.

*Note: The **artista** 185 and 200 can change directions while stitching; the machine does not have to be stopped first.*

Notes

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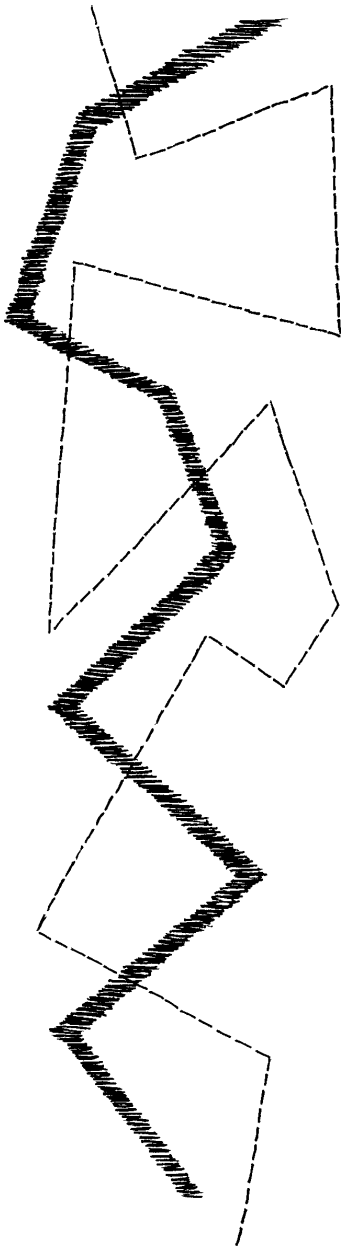
Free-Form Directional Stitching Sample



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All-Over Directional Stitching

(*artista* 185 & 200 only)

Fabric	chamois, 8” x 10”
Stabilizer	Aqua Film, 8” x 10”
Needle	90/14 Embroidery
Thread	30 weight cotton embroidery
Presser Foot	Sideways Motion Foot #40C
Stitch	directional straight stitch
Needle Position	center

Place stabilizer behind fabric, bonding with a light application of 505 temporary adhesive. Fold fabric/stabilizer in half to 4” x 10”. Mark a large “+” shape on the fabric as a reference/guideline.

Select an empty memory bank (***artista*** 185) or Combi Mode (***artista*** 200) and program the following stitches:

- #217, two times
- Insert stitch #39, direction 6, 4x between the two #217s
- Insert stitch #39, direction 10, 4x after the second #217

Save the stitch combination.

Stitch from one end of the fabric to the other, guiding fabric so that the “+” stays parallel and perpendicular to the presser foot.

Stitch additional rows parallel to the first row, creating an all-over pattern on the fabric.

Notes

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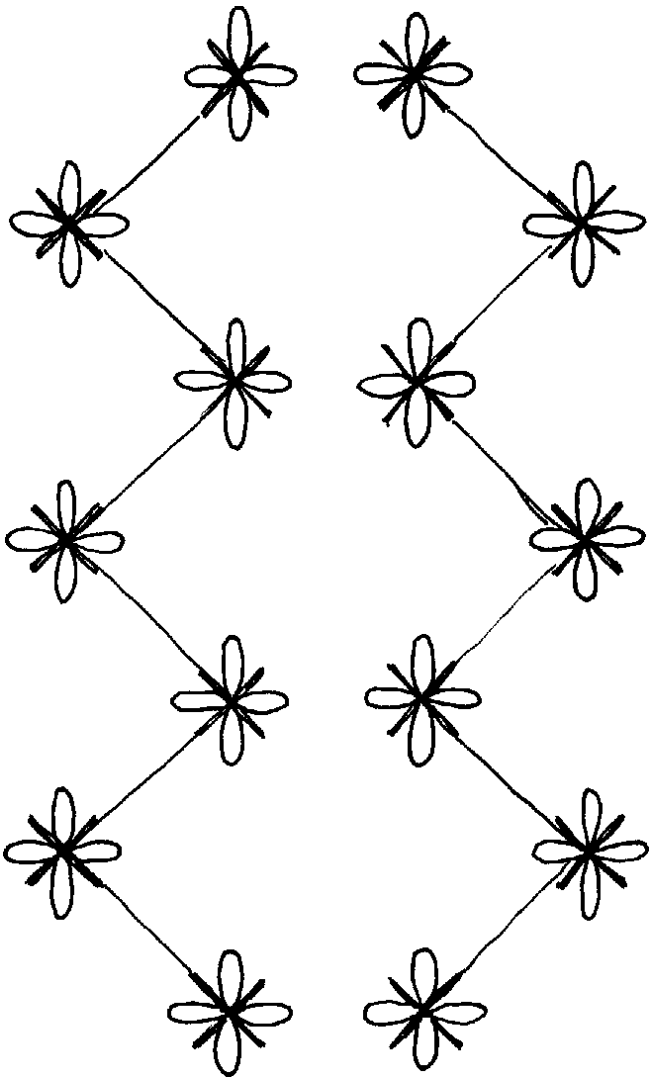
All-Over Directional Stitching Sample



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Trailing Tulip Vines

(*artista* 185 & 200 only)

Fabric ..... chamois, 8” x 10”
Stabilizer ..... heavyweight tear-away, 8” x 10”
Needle ..... 90/14 Embroidery
Thread ..... 30 weight cotton embroidery
Presser Foot ..... Sideways Motion Foot #40C
Stitch ..... as indicated
Needle Position ..... center

Place stabilizer behind fabric, bonding with a light application of 505 temporary adhesive.

Select an empty memory box (***artista*** 185) or Combi Mode (***artista*** 200) and program the following stitches:

- stitch #137* + Horizontal Mirror Image
- stitch #145
- stitch #39, direction 6 - 1x
- stitch #145 + Horizontal Mirror Image
- stitch #137
- stitch #39, direction10 - 1x
- stitch #145 + Horizontal Mirror Image
- stitch #137
- stitch #39, direction 6 - 1x
- stitch #137 + Horizontal Mirror Image
- stitch #145
- stitch #39, direction10 - 1x

Save the stitch combination.

Stitch from one end of the fabric to the other, guiding fabric so that the “+” stays parallel and perpendicular to the presser foot.

Stitch additional rows of this stitch combination, scrolling through the stitches to start at different points.

Note: Some adjustments to stitch combination formulas may be necessary depending on the fabric, thread, and stabilizer used to create the stitch sample.

** CPS stitch #137 was added to the **artista** 185 on page 136*

Notes

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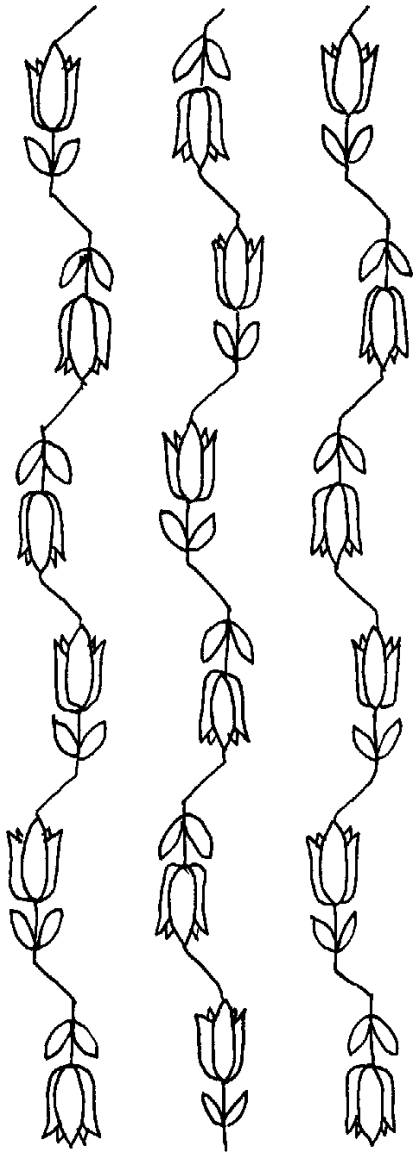
Trailing Tulip Vines Sample



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Monogram

(*artista* 185 & 200 only)

Fabric ..... firm fabric, 8" x 8"
Stabilizer ..... heavyweight cut-away
Needle ..... 90/14 Embroidery
Thread ..... Isacord embroidery
Presser Foot ..... Sideways Motion Foot #40C
Stitch ..... monogram alphabet
..... directional straight stitch
Needle Position ..... center

In this exercise, you will plot, program, and stitch a monogram, using the directional straight stitch to move from the end of one letter to the beginning of the next. Using the Long Stitch function omits every other stitch point in the 9mm long directional stitch, making it easy to remove connecting stitches. Using the Securing function ensures that letters are securely "tied" at the ends.

Remove the transparent monogram templates from the pocket in the back of your owner's manual. Find the letters that are your initials.

Using the template, plot your initials on the fabric, marking the beginning and ending points of each letter. *Note: On the templates, an "o" indicates the beginning of a stitch pattern, and a "+" indicates the end of a stitch pattern. When plotting points, make sure that the template shows the toes of the "presser footprint" pointing forward, and "BERNINA" reads correctly. Starting and stopping points also appear in the Stitch Altering Area of the* ***artista*** *200.*

Using the clear compass template, determine the direction and length (the number of "foot prints") between the end of the first letter and the beginning of the second. Be sure that direction 16 is at the top of the template. Repeat for the second and third initials.

Program your initials and the required number and direction of straight stitch #39 in memory/Combi Mode. Engage the Long Stitch function for all #39 stitches, and insert the Securing function at the end of all three letters. Save.

Starting at the marked point at the beginning of the first initial, stitch the monogram sequence.

Note: Some adjustments to stitch combination formulas may be necessary depending on the fabric, thread, and stabilizer used to create the stitch sample.

Notes

Preview: *artista* 200
Select Preview>Sewing View. A diagram appears screen showing how the monogram will look when it is stitched.

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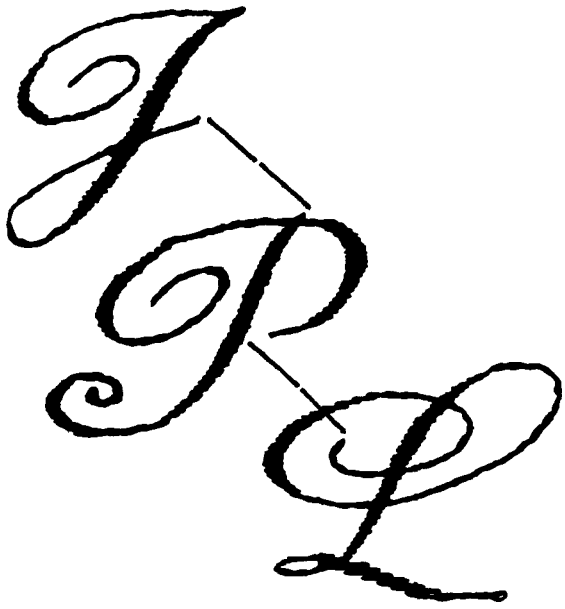
Monogram Sample



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Scalloped Edging

(*artista* 185 & 200 only)

Fabric	chamois, 8” x 10”
Stabilizer	heavyweight tear-away, 8” x 10”
Needle	90/14 Embroidery
Thread	30 weight cotton embroidery
Presser Foot	Sideways Motion Foot #40C
Stitch	directional straight stitch
	multi-motion scallop
Needle Position	center

Affix the stabilizer to the back of the fabric with a light application of 505 temporary adhesive. Fold in half to 4” x 10”.

Select memory/Combi Mode. Program the following combination of stitches:

- stitch #507, two times
- stitch #39, direction 2, 1x, between the two scallops
- stitch #39, direction 14, 1x, after the second scallop
- select the second scallop; engage Vertical Mirror Image
- select each of the directional straight stitches; engage the Long Stitch function; this will make the connecting stitches easier to clip and remove.

Save to an empty memory bank or folder.

Stitch, guiding gently.

If necessary, fine tune the directional stitching so that the end of the scallops meet as shown in the illustration.

Notes

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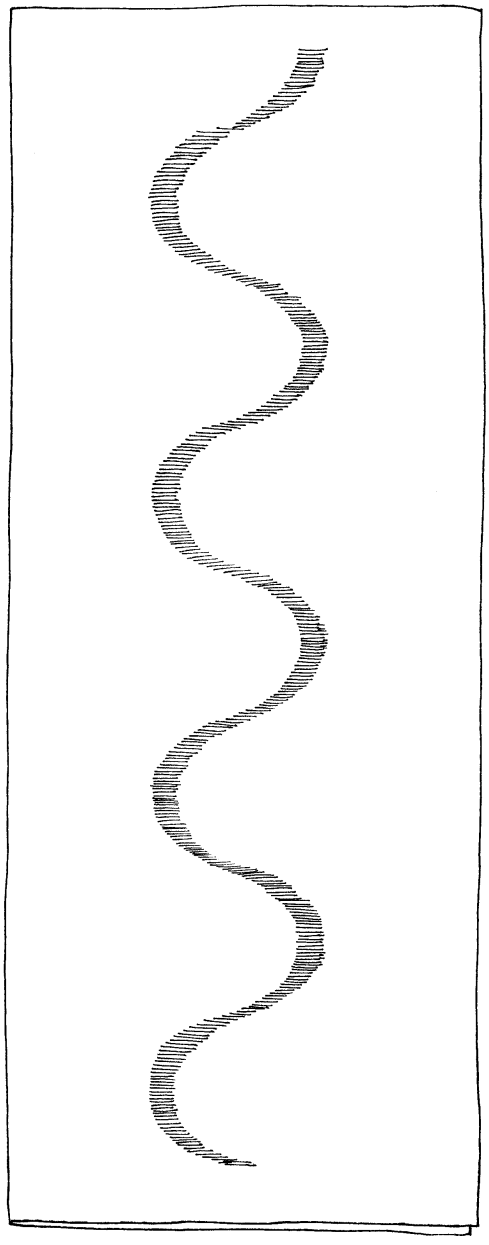
Scalloped Edging Sample



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Stacked Scallop Edging

(*artista* 185 & 200 only)

Fabric	chamois, 8” x 10”
Stabilizer	heavyweight tear-away, 8” x 10”
Needle	90/14 Embroidery
Thread	30 weight cotton embroidery
Presser Foot	Sideways Motion Foot #40C
Stitch	as indicated
Needle Position	center

Place stabilizer behind fabric, bonding with a light application of 505 temporary adhesive. Fold fabric/stabilizer in half to 4” x 10”. Mark a large “+” shape on the fabric as a reference/guideline.

Select an empty memory bank (***artista*** 185) or Combi Mode (***artista*** 200) and program the following stitches:

- stitch #507, 3x
- touch Pattern Begin; the cursor moves between the first and second scallops
- stitch #39, CDL2 - 3x ***between*** the first and second scallop
- stitch #39, CDL14 - 3x ***between*** the second and third scallop
- engage the Long Stitch function for the Directional stitches only

Save the stitch combination.

Stitch from one end of the fabric to the other, guiding fabric so that the “+” stays parallel and perpendicular to the presser foot.

Partially trim fabric from scallops. *Note: To create edging, trim fabric from outer edge, then apply YLI Pearl Crown Rayon to the edge using Embroidery Foot #6 and a small zigzag stitch.*

Note: Some adjustments to stitch combination formulas may be necessary depending on the fabric, thread, and stabilizer used to create the stitch sample.

Notes

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Stacked Scallop Edging Sample

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Directional Quilting

(*artista* 185 & 200 only)

Fabric	two pieces cotton quilting fabric, 4” x 10”
Stabilizer	cotton needle-punched batting, 4” x 10”
Needle	90/14 Embroidery
Thread	30 weight cotton embroidery
Presser Foot	sideways Motion Foot #40C
Stitch	directional straight stitch
Needle Position	center

Affix the batting to the back of the fabric with a light application of 505 temporary adhesive. “Baste” the backing to the other side of the batting in the same manner to create a “quilt sandwich.”

Select memory/Combi Mode. Program the following combination of stitches:

- stitch #39, direction 8, 1x,
- stitch #39, direction 4, 2x,
- stitch #39, direction 8, 3x,
- stitch #39, direction 12, 2x,
- stitch #39, direction 8, 2x,

Save to an empty memory bank or folder.

Select Combi Mode. Program the following stitch combination:

- stitch #39, direction 8, 2x,
- stitch #39, direction 12, 1x,
- stitch #39, direction 8, 1x,
- stitch #39, direction 4, 1x

Save to an empty memory bank or folder.

Draw a line from one end of the fabric to the other, marking the center of the fabric. Stitch each stitch combination one time, aligning the center of the presser foot with the drawn line at the beginning of each line of stitching, and keeping the foot parallel to the line as the fabric moves from side to side under the foot.

Trim and mount the sample.

Notes

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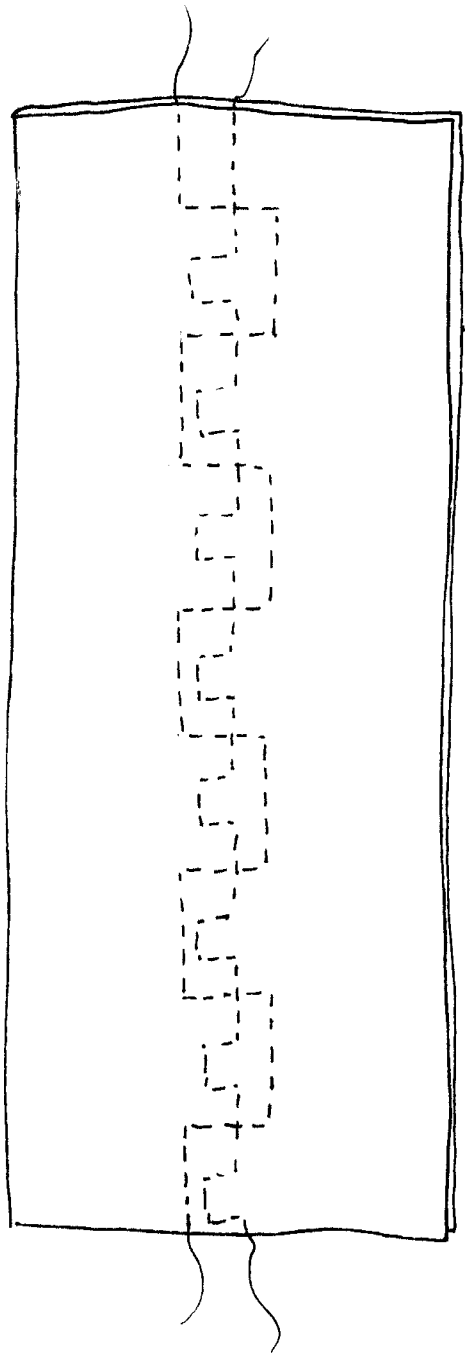
Directional Quilting Sample



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Directional Baubles

(*artista* 200 only)

Fabric	firm, woven fabric, 8” x 10”
Stabilizer	heavyweight tear-away, 8” x 10”
Needle	90/14 Embroidery
Thread	30 weight cotton embroidery
Presser Foot	Sideways Motion Foot #40C
Stitch	as indicated
Needle Position	center

*This is a fun and different way to use the **artista** 200’s directional capabilities. It makes use of the new Sub-Divider 2 feature, which acts as a stop within a combination. A Sub-Divider 2 also allows you to continue sewing other parts of a stored stitch combination.*

- Select Combi Mode. Program the following combination of stitches:
  - stitch #654, stitch length = 2mm
  - stitch #651
  - stitch #654, SL=2, Horizontal Mirror Image
  - Sub-Divider 2
  - stitch #39, CDL4 - 3x
  - Subdivision
  - stitch #431
  - Sub-Divider 2

- Save to an empty folder.
- Place the stabilizer under the fabric.
- Begin sewing the motif. After the first three patterns have been stitched the ***artista*** 200 will automatically stop at the Sub-Divider 2.
- Release the foot control, then begin sewing again. The ***artista*** 200 automatically moves to the directional section of the combination, then stops at the next Sub-Divider 2.
- Release the foot control. Raise the presser foot and pivot the fabric 180º. Resume stitching; the next stitch pattern stitches over the previous directional stitching. Again, the ***artista*** stops automatically at the end of the stitch pattern.
- Pivot 90º and continue sewing the combination as shown.
- Repeat to create an interesting linear embellishment.
- Trim and mount sample.

Notes

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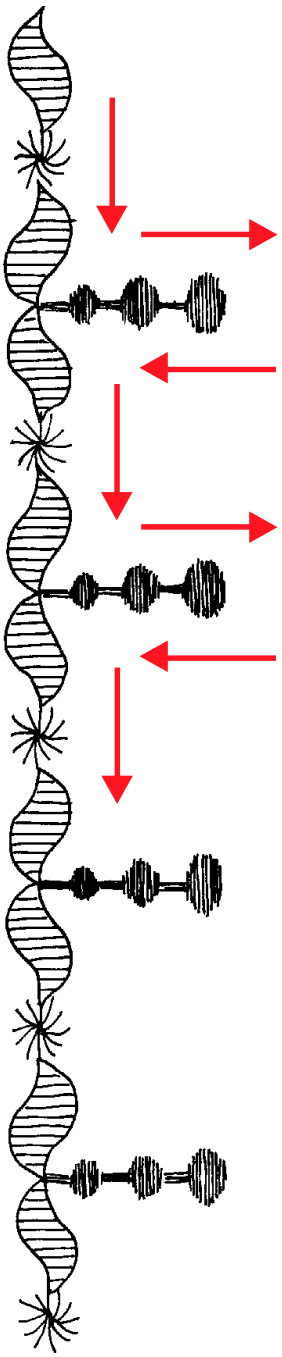
Directional Quilting Sample



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Class 6
Product Reference List
artista Extras

- ❑ *Feet-ures,* Volumes 1 and 2
- ❑ Embroidery Foot #6

- ❑ BERNINA® Ironing System

Threads

- ❑ Mettler 30 weight Cotton Embroidery
- ❑ YLI Pearl Crown Rayon
- ❑ YLI Candlelight

- ❑ Embroidery Needles
- ❑ OESD Heavyweight Tear-Away Stabilizer

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