# SINGER®

## QUANTUM® 9910 WORKBOOK



Congratulations on the purchase of your new Quantum® 9910 sewing machine! We are certain that you will have many hours of sewing enjoyment with this easy-to-use, feature-packed machine.

This workbook has been designed as a tool for learning various sewing techniques, which you can apply to your own projects. We hope that it inspires you and stimulates even more creativity.

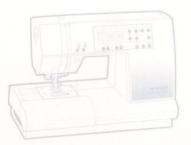
Enjoy!

The SINGER® Education Department

## SINGER

### Quantum® 9910

Features and Benefits



169 Built-In Stitches	A large variety of stitches for construction, decorative sewing, heirloom sewing and quilting always ensures the perfect stitch for every project.
Built-In Stretch Stitches	Specially designed stitches that add strength and flexibility to seams, especially useful when sewing on knitwear.
Built-In Quilting Stitch	Create a hand sewn look with this unique stitch.
Built-In Heirloom-Friendly Stitch Selection	Pin Stitch, Blanket Stitch and Entredeux are a few of the popular heirloom stitches available.
Built-In Cross Stitches	An excellent selection of cross stitches.
7mm Stitch Width	Most stitches can be set for a maximum width of 7mm. When sewing decorative stitches or satin stitches the wide stitches are bolder and more pronounced.
Built-In Alphabet	The alphabet can be made in upper and lower case, as well as numbers. Personalize projects by adding a monogram, name or phrase with the built-in alphabet.
One Step Built-In Buttonholes	Choose from 4 different one step buttonholes. Buttonhole sewing is a one step simple process that provides reliable results.
Exclusive Buttonhole Underplate	The Underplate helps secure and hold in place bulky or thick fabrics, as well as difficult-to-work-with fabrics. Effectively this is a bit like a mini-embroidery hoop in which the machine feeds the attachment rather than the fabric.
Balance Adjustment Dial	Guarantees control for even stitching of buttonholes and stretch stitches, regardless of fabrics type.
2-Line, 820 square mm Liquid Crystal Display (LCD)	The LCD provides clear and easy viewing of the stitch pattern number, as well as the stitch's correct width and length.
Stitch Length and Width Adjustment	Optimal settings for length and width are automatically adjusted when choosing a stitch. They can be overridden to personalize length and width choice.
Needle Up and Down	Select whether the needle is up or down when the machine stops. It is beneficial to have the needle stop in the down position when appliqueing, quilting or pivoting the fabric. When removing the fabric from the machine, it is easier if the needle is raised to highest position.
25 Needle Positions	Needle position can be changed for individual projects, such as inserting zippers or cording and topstitching.

Automatic Reverse	Push to sew in reverse, reinforcing the stitch.
Sewing Speed	With a maximum sewing speed of 900 spm, projects can be sewn quickly.
Automatic Needle Threader	Effortless threading of the machine, including automatic threading of the eye of the needle!
Automatic Tension	This system ensures stable stitch quality, whatever the type of fabric being used.
Top Loading Jam-Resistant Bobbin System With Clear Cover	This mechanism incorporates a magnet-type vertical axis rotating hook that ensures smooth, quiet, thread jam-resistant sewing. The bobbin loads from the top so it is easy to insert the bobbin. The clear cover makes monitoring the bobbin thread a simple process.
Extra-High Presser Foot Lifter	There are two heights to the presser foot lifter. The second height offers a 1/4" more clearance which is needed when placing multiple layers or bulky fabric under the presser foot.
LED White Lamp	The lamp illuminate the sewing surface for optimal viewing. The long-lasting bulb stays cool, regardless how long the machine is operated.
7-Segment Feeding System	7 individual feed dogs work in unison to feed fabric effortlessly regardless of fabric type.
Drop Feed Dogs	A conveniently located lever will lower the feed dogs for free-motion embroidery, monograms and for attaching buttons.
Presser Foot Adjustment	Easily change the pressure of the presser foot for smooth seams all types of fabrics.
Optimal Power Control	The Optimal Power Control provides precise piercing power when sewing multiple layers or dense fabrics. The piercing power is the same regardless of sewing speed.
Twin Needle	Stitches are automatically adjusted for twin needle sewing with just a touch of a button.
Mirror Image*	With just a touch of a button, stitches can be mirror imaged.
20 Space Memory	A large memory holds full names and simple phases.
Self-Lubricating	No need to lubricate the machine.
Warning Signals	Visual warning messages alerts the sewer. The messages make for trouble-free sewing.

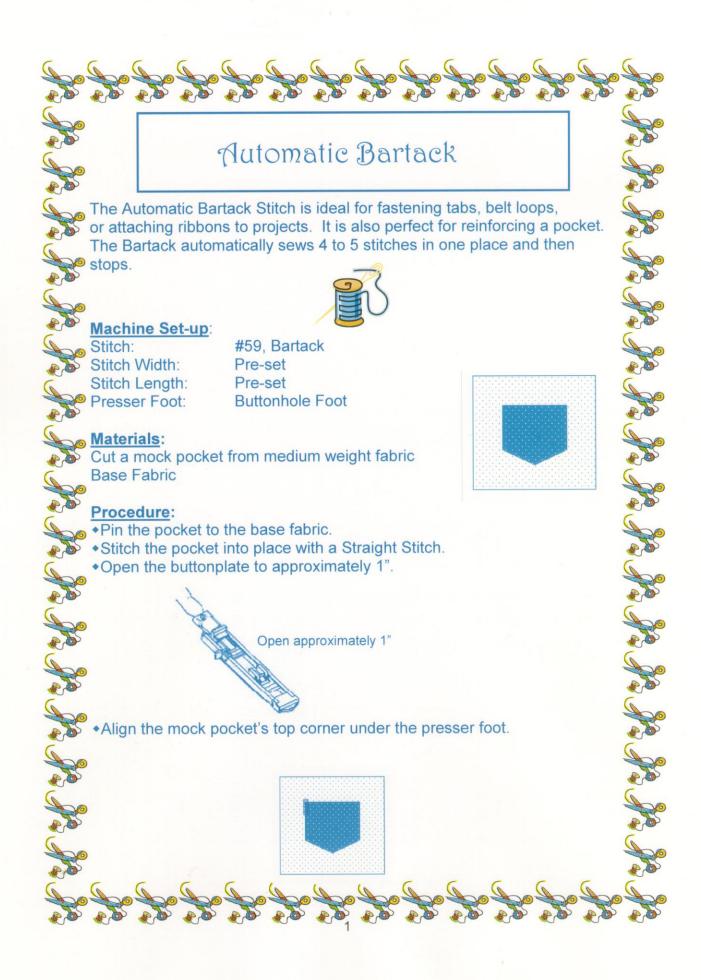
Box Feed	This is a feed dog that moves the feed dogs in a box motion rather than the historic arc motion. Box motion assures perfect feeding throughout the entire feed process as the feed dogs are always in perfect and equal contact with the fabric and presser foot.
Electronically Controlled Stepper Motors	All stepper motors are electronically controlled. Digital electronic control of the stepper motors that control the pattern formation allow for perfectly formed patterns every time.
Aluminum Frame	The internal skeleton of the sewing machine. This rigid support holds all the mechanisms in perfect alignment for perfect, skip free sewing.
Accessories	Auxiliary Spool Pin Overcasting Foot Blind Hem Foot Zipper Foot Button Sewing Foot Satin Foot Straight Stitch/Patchwork Foot Buttonhole Foot and Underplate General Purpose Foot Needles, Bobbins, Screwdrivers Lint Brush and Seam Ripper
Dust Cover	Covers the machine when it is not in use.
Warranty	The Quantum 9910 has a 25 year limited warranty.

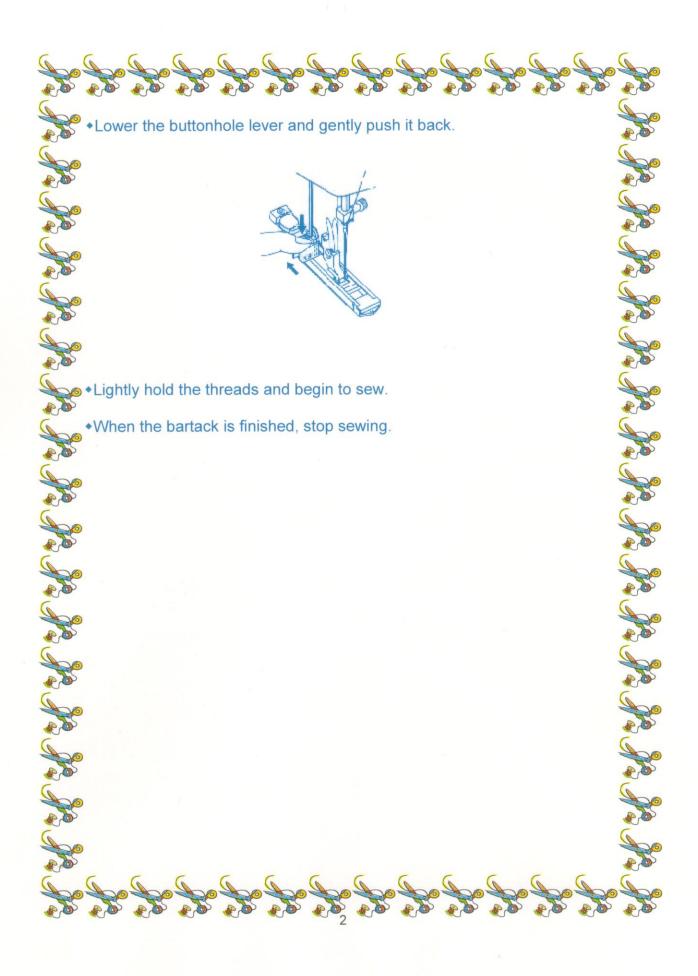
<sup>\*</sup>If the stitches can be mirror imaged it will be highlighted.

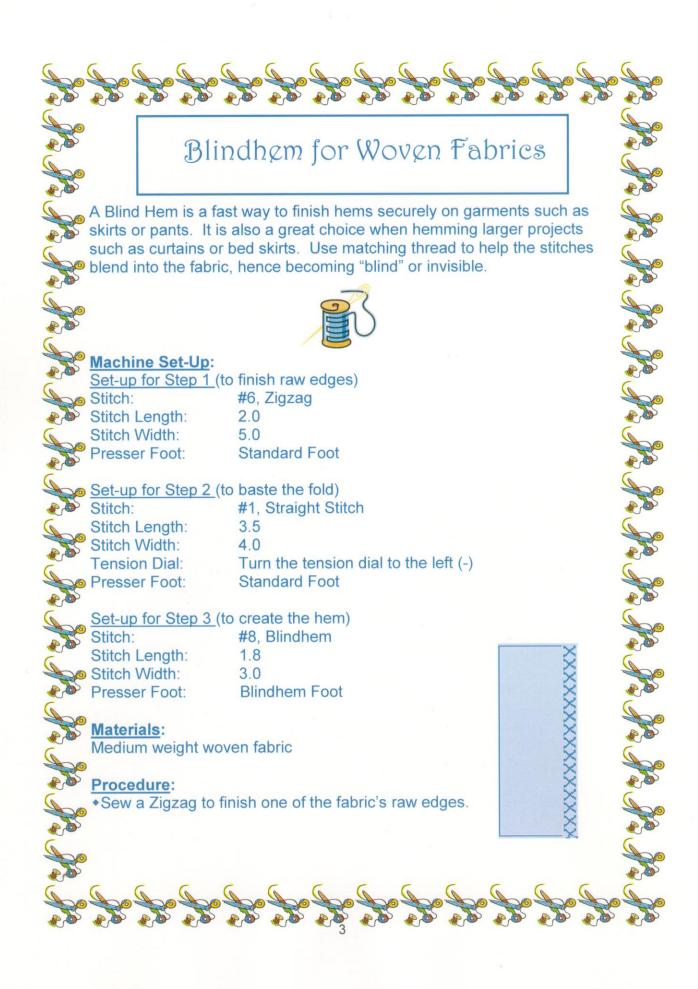
de de de de de de de de de		
Quantum <sup>®</sup> 9910		
Table of Contents		
Garment Construction Techniques:		
Automatic Bartack Blind Hem on Woven Fabrics	1 3	
Button Sewing Buttonholes Corded One-Step Buttonhole	5 <b>9</b> 7	
Keyhole One-Step Buttonhole Lightweight One-Step Buttonhole One-Step Buttonhole	9 11 13	
Elastic Application Narrow Elastic Wide Elastic	15 16	
Elastic Straight Stitching as a Topstitch on Woven Fabrics Elastic Straight Stitching Seam on Stretch Fabrics	17 18 19	<b>F</b> 0
Multi-Stitch Zigzag Multiple Needle Positions Overcasting	20	
Overcasting Edge Finish Overcasting Edge Finish for a Flat Seam Overcasting Finish for Stretch Rib Knit Collar/Cuff	21 22 23	
Sewing Heavy or Thick Fabrics Straight Stitching	24 25	
Quilting		
Free-Motion Embroidery Free-Motion Stippling Patchwork or Fagoting	26 28 29	
Quarter-Inch Foot Quilting Stitch as a Topstitch	53 30	
La L		

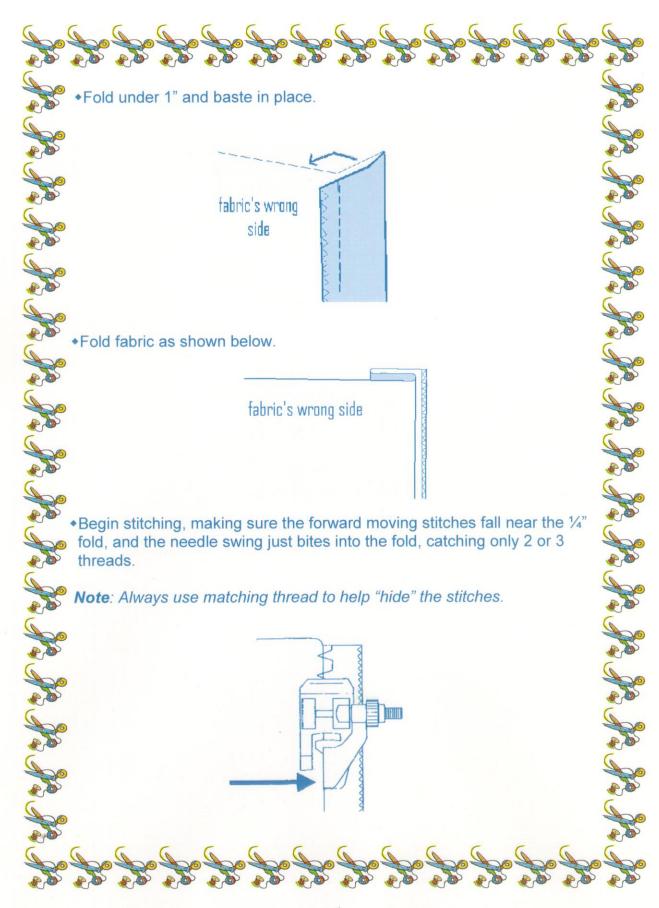
	La Calada Calada Calada Calada		
S. P.	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	P. 6.2	69
			1
P. S.	Fabric Embellishment		E. D.
	Attaching Beaded or Fringed Trims	31	
	Blanket Stitch Edge	32	E B
6	Built-In Letters	33	6
	Cross Stitches	35	
	Decorative Stitching	36	6
1	Decorative Stitching (mirror image)	37	100
S. D.	Free-Motion Embroidery	26	E
	Free-Motion Monogramming	38	900
A STATE OF THE PARTY OF THE PAR	Lace Insertion	40	E. B.
6	Patchwork or Fagoting	29	6
	Piping	42	
	Applying Creating	43	6
1	Satin Stitch Appliqué	44	100
	Scalloped Edge Finish	45	- CO
900	Twin Needle		1
E 20	Applying Ribbon with a Twin Needle	46	E. D.
6	Pintucking with a Twin Needle	47	6
	Topstitching with a Twin Needle	48	
	Haidaan Saring		
S. S	Heirloom Sewing	40	S. J.
6	Lace Insertion	40 49	6
	Heirloom One-Step Buttonhole	29	
	Patchwork or Fagoting Pin Stitch Appliqué	51	6
	Twin Needle Pintucks	47	1
	Wing Needle	52	
	Tring research		1
E.P.			69
E 20			S. D.
6			6
6			6
1			100
		6	
1	for at of of of of of of of	20	1
Coll of	a cha cha cha cha cha cha cha cha cha ch		

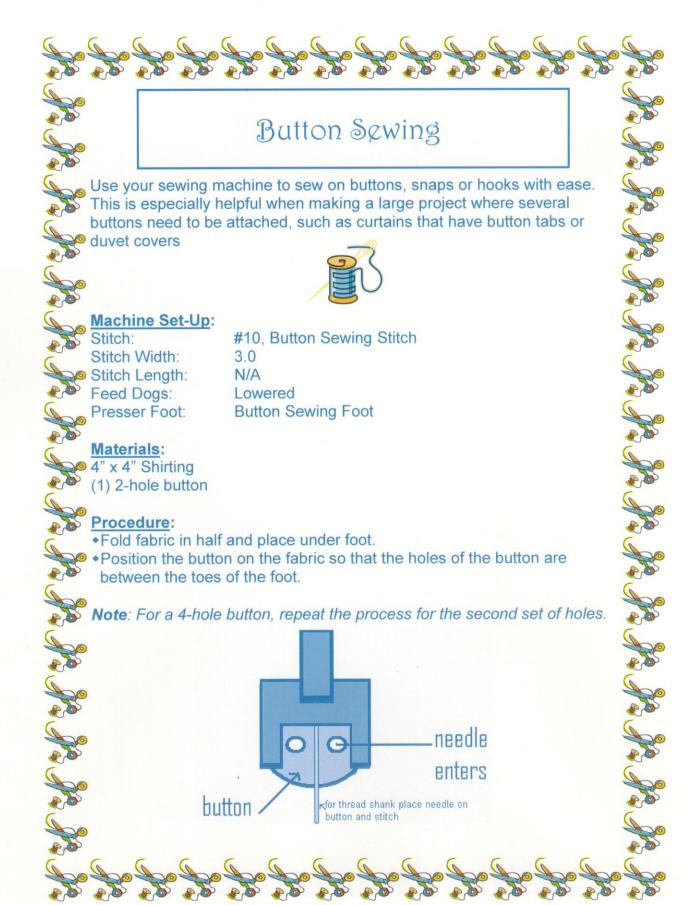
	22 22 22 22 22 22 22 22 22 23 23 23 23 2	E E	S. S
	Home Decorating	4	10 m
	Automatic Bartack	32	1
S. S.	Blanket Stitch Edge Blind Hem on Woven Fabrics	3	10 mg
9	Button Sewing	3 5	
	Buttonholes		P. B.
6	Corded One-Step Buttonhole	7	6
	One-Step Buttonhole	13	
6	Elastic Application	15	6
	Narrow Elastic Wide Elastic	16	
	Elastic Straight Stitching as a Topstitch on Woven Fabrics	17	6
1	Free-Motion Embroidery	26	
	Free-Motion Monogramming	38	
1	Piping		1
10 m	Applying	42	E. (1)
	Creating	43	
E. D.	Overcasting Overcasting Edge Finish	21	S. S.
	Overcasting Edge Finish for a Flat Seam	22	
	Sewing Heavy or Thick Fabrics	23	62
6	Straight Stitching	25	
	Twin Needle Topstitching	48	68
(			6
6			6
1			
			6
			-
1			100
6			- CO
			100
E. B.			S. P.
			1
S. S.			E B
6			6
(a)		6 6	6

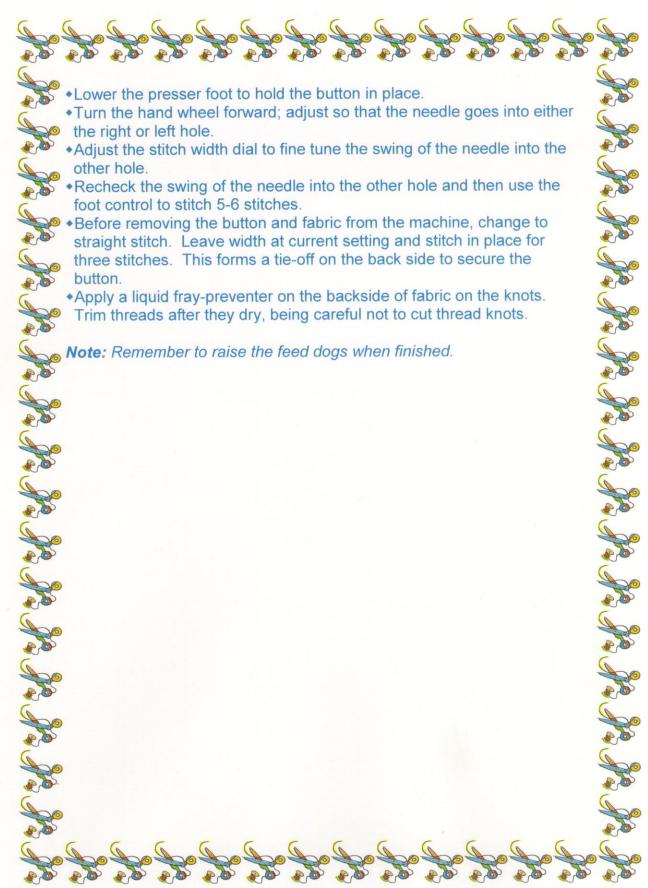


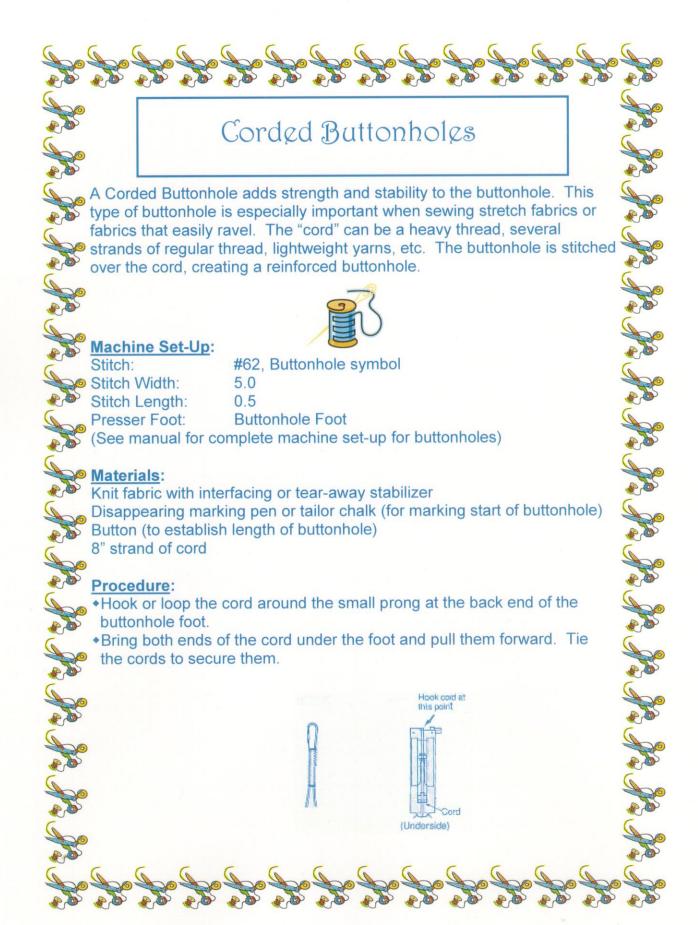


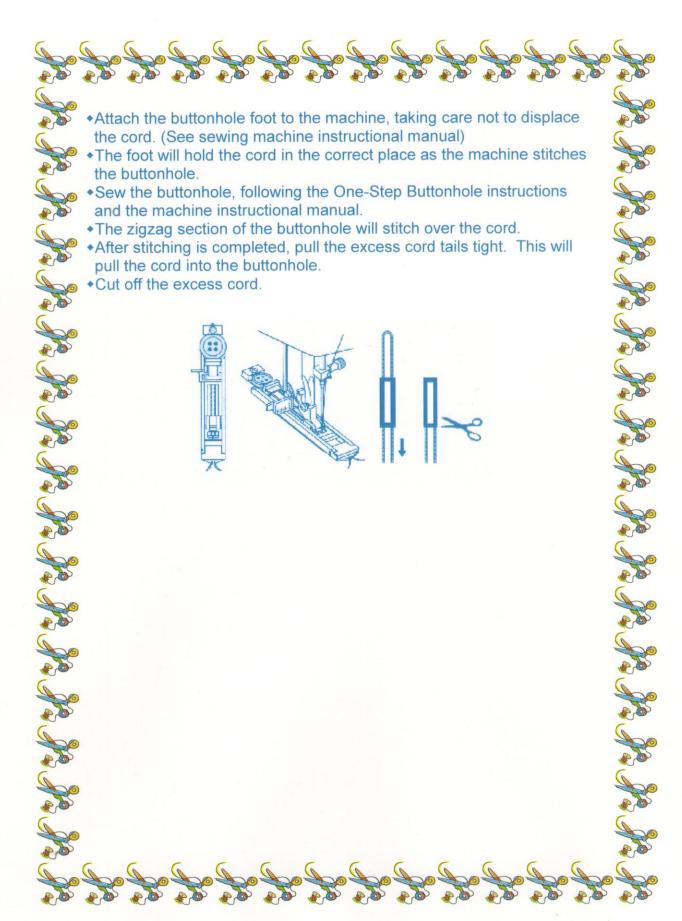




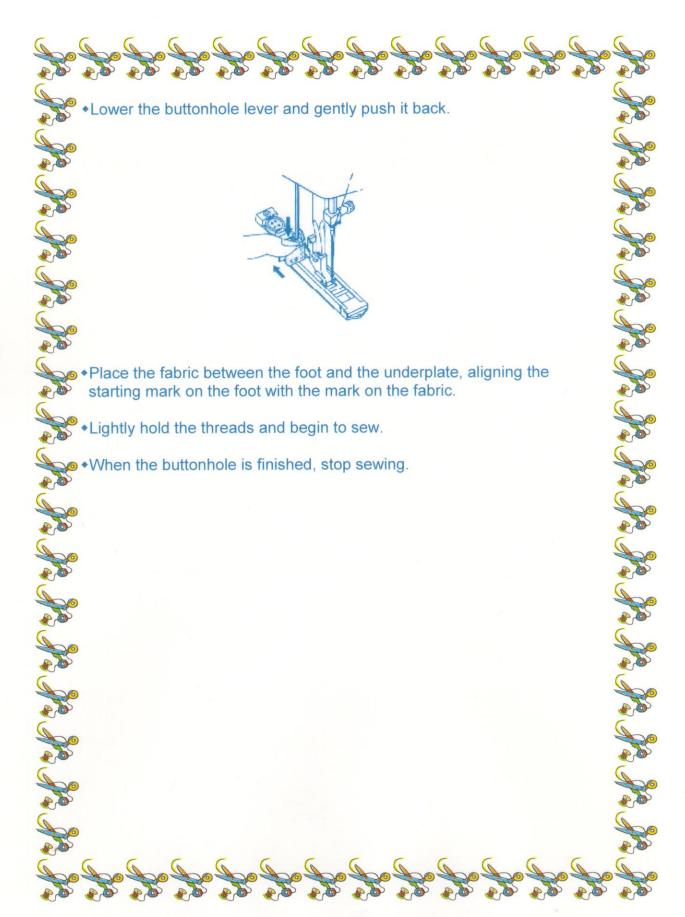






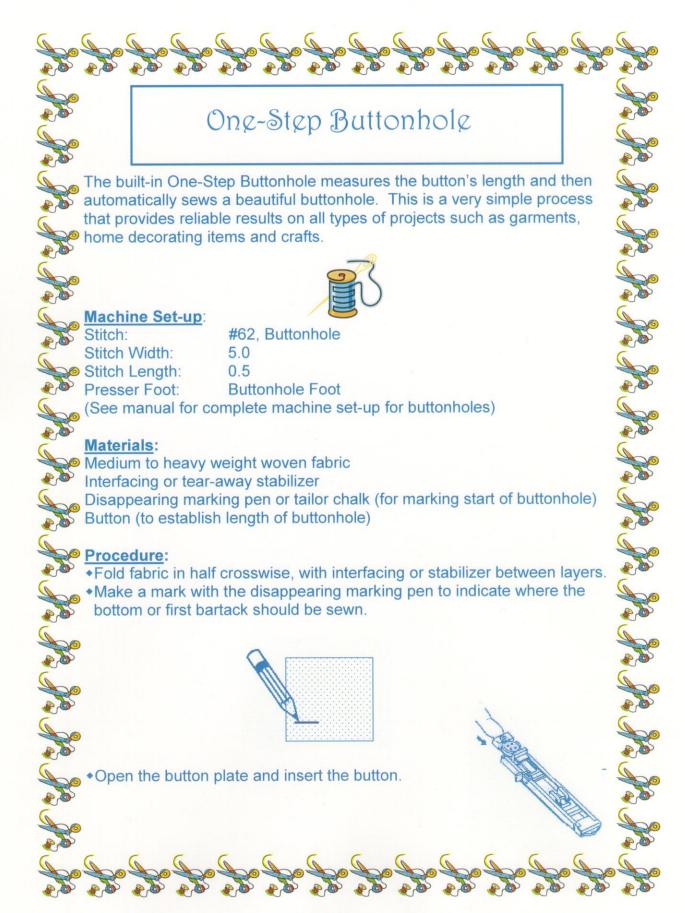


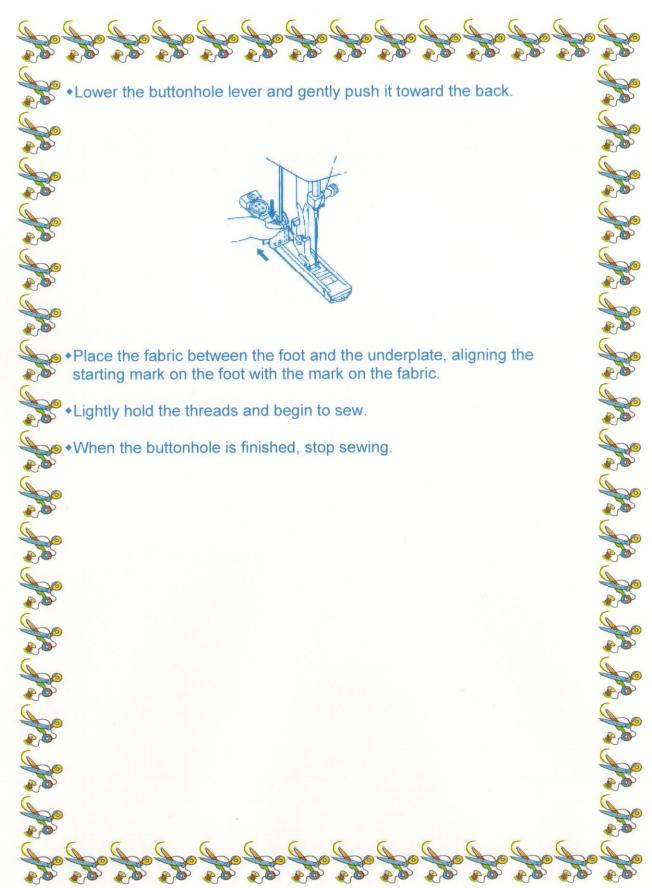


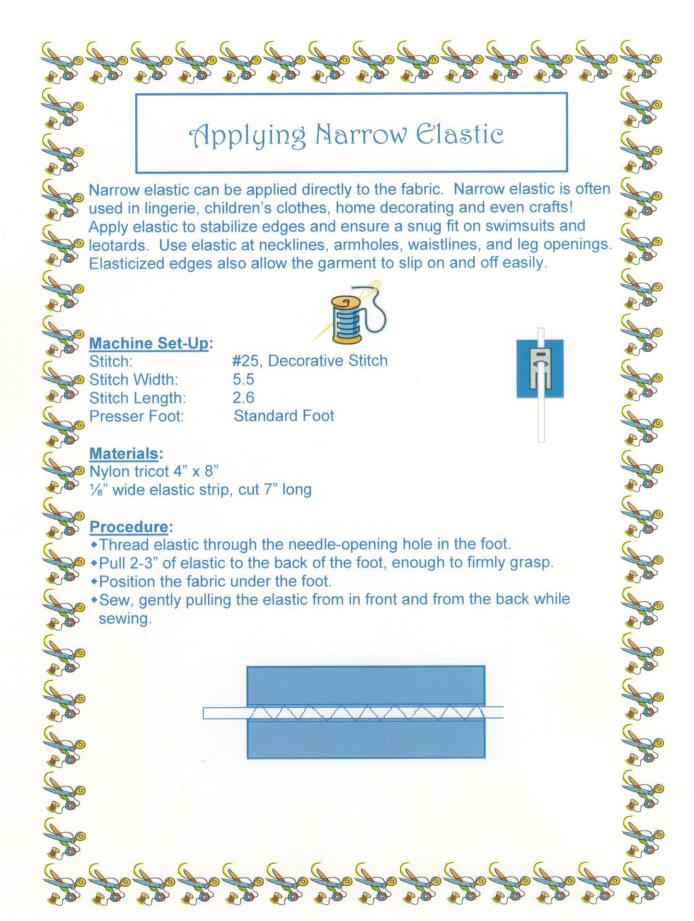
















This stitch is wonderful for built-in strength! It is ideal when sewing heavy-weight fabrics or when it is desired to have a bolder-looking straight stitch. Try it as a topstitch on jeans, a home decorating project, or when an extrastrong seam is needed, such as in children's clothing.



#### Machine Set-Up:

Stitch:

#3, Straight Stretch/Reinforcing Stitch

Stitch Width:

3.5. Center Needle Position

Stitch Length:

2.6

Presser Foot:

Standard Foot

#### **Materials:**

Denim, folded in half

#### Procedure:

Sew on the two layers.

**Note:** Slowly turn the handwheel toward the front and watch the needle repeat each stitch 3 times. Because the stitch repeats, the sewn seam is much stronger.



When a standard Straight Stitch is sewn on stretch fabric, it can "pop" or break when the fabric is stretched. Stretch Stitches or Flexi-stitches allow for "no-pop" sewing on stretch fabrics. Stretch fabrics are used to make exercise outfits, dance costumes, swimsuits and much more. As the fabrics of these garments stretch, so do the stitches!



#### Machine Set-Up:

Stitch:

#3, Straight Stretch/Reinforcing Stitch

Stitch Width:

3.5, Center Needle Position

Stitch Length:

2.6

Presser Foot:

Standard Foot

#### Materials:

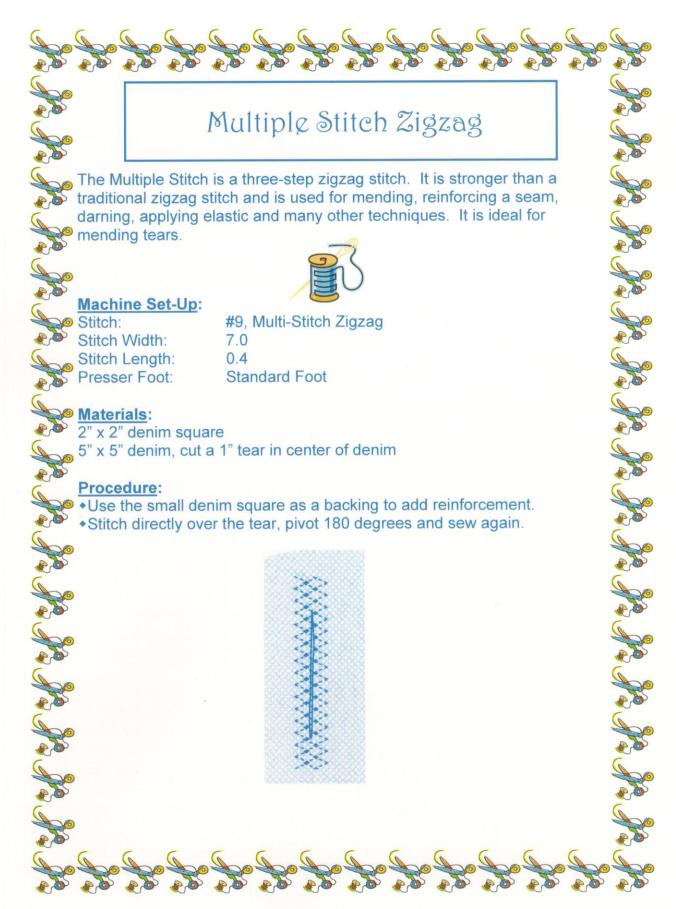
Knit fabric, folded in half

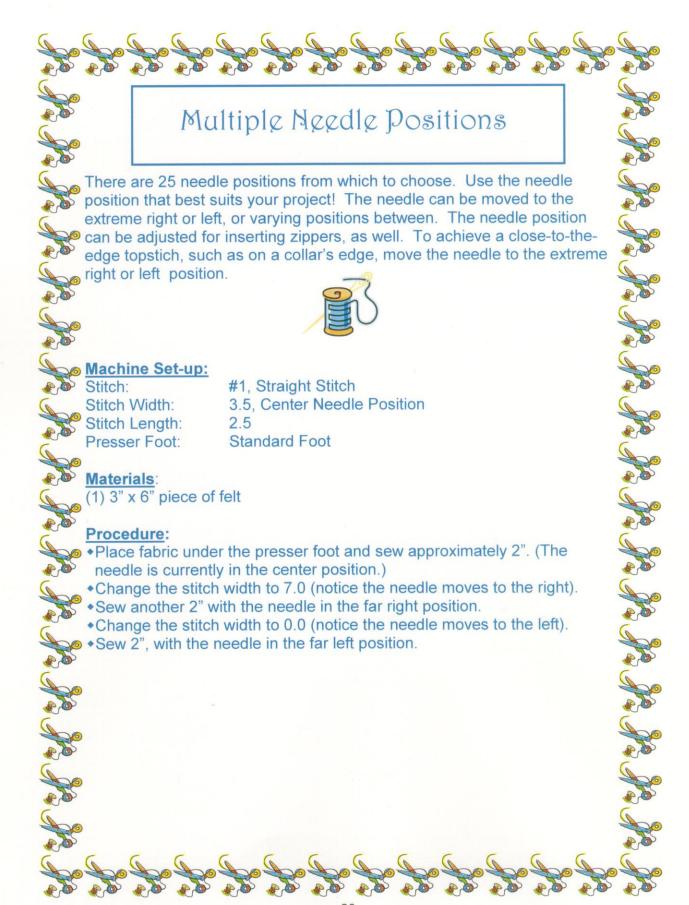
Ballpoint Needle (Chromium 2001)

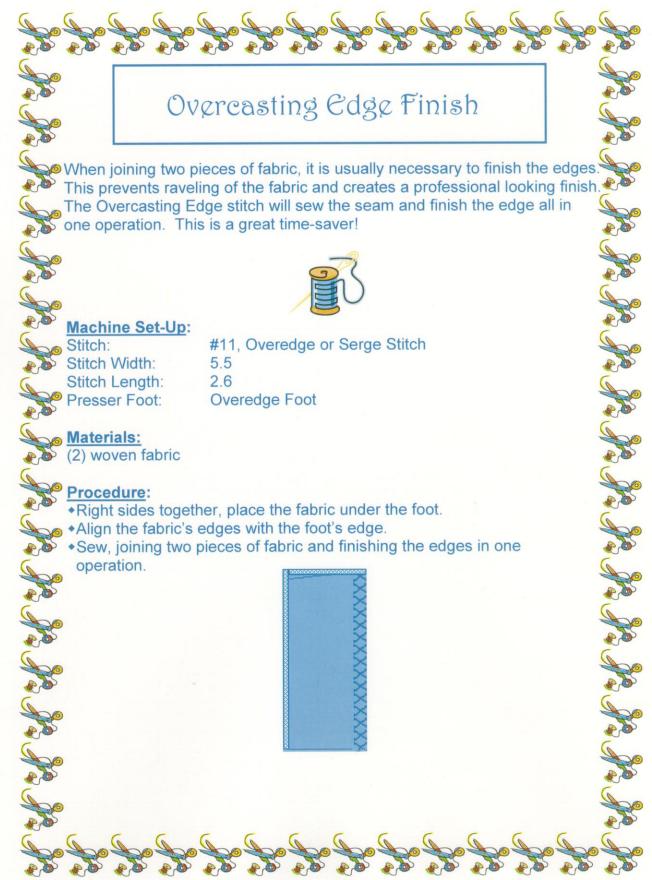
#### Procedure:

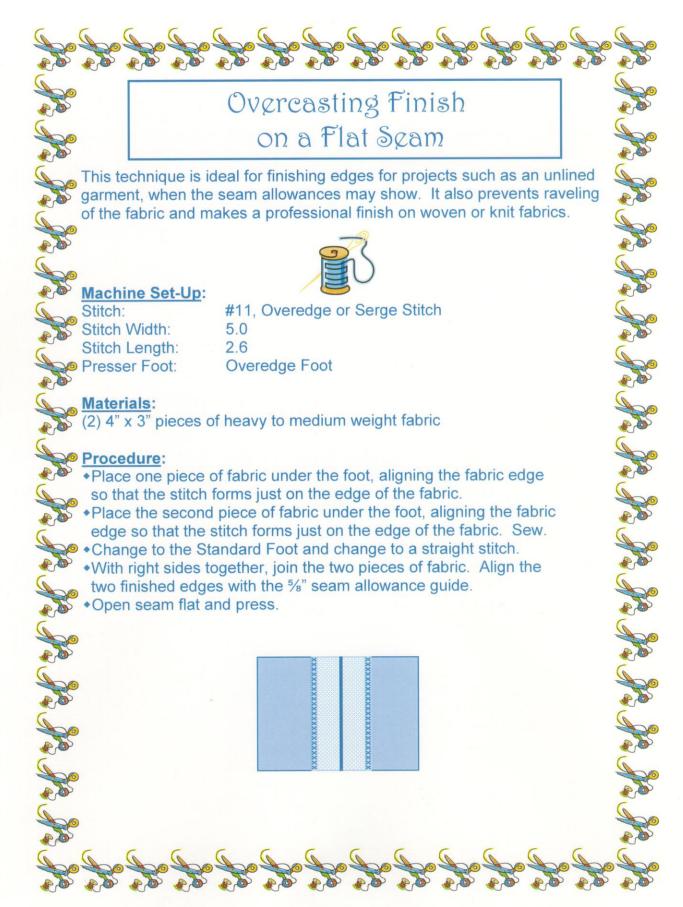
•Sew on the two layers.

Note: After sewing, notice how the stitch stretches with the fabric.











looking finish on projects, and is especially popular on sweatshirts.

Machine Set-Up:

Stitch:

#11, Stretch Overcasting Stitch

Stitch Width:

5.5

Stitch Length:

2.6

Presser Foot:

Overedge Foot

**Materials**:

6" x 6" Medium to heavy weight knit fabric or polar fleece 3" x 6" Ribbing

Procedure:

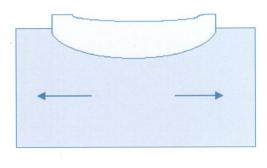
Cut a curve in the knit fabric to resemble a neckline.

•Fold ribbing in half lengthwise.

•Start at the left side of the knit curve. Place ribbing on front side of curve.

•Match all 3 cut edges and place under the presser foot.

 Line up fabric edges with guide on foot and stitch the length of the seam.







The Straight Stitch is generally used to join seams or to do topstitching. It is the most basic of the stitches and is the most commonly used. For a longer stitch or for thicker fabrics, lengthen the stitch. On the numerical scale, the higher the numbers form a longer stitch; if a shorter stitch is desired, select a lower number. Stitch length is changed depending on the fabric, the thread choice and the sewing technique being used.



#### Machine Set-up:

Stitch: #1, Straight Stitch

Stitch Width: 3.5, Center Needle Position

Stitch Length: 2.5

Presser Foot: Standard Foot

#### **Materials:**

(2) 3" x 5" pieces of cotton

#### Procedure:

- Join the fabric, right sides together with the Straight Stitch.
- •Use the reverse lever to reinforce the seam at each end.
- Try different stitch lengths.



Free-motion embroidery is an elegant embellishment. The embroidery can be extremely detailed, such as the embroidery on a bridal gown. It can also be as simple as a row of flowers on kitchen linens. Embroidery is a timeless art form, from which one-of-a-kind projects are created.



#### **Machine Set-Up:**

Stitch: #6, Zigzag Stitch

Stitch Width: 2.0
Stitch Length: N/A
Feet Dogs: Lowered

Presser Foot: Embroidery/Darning Foot

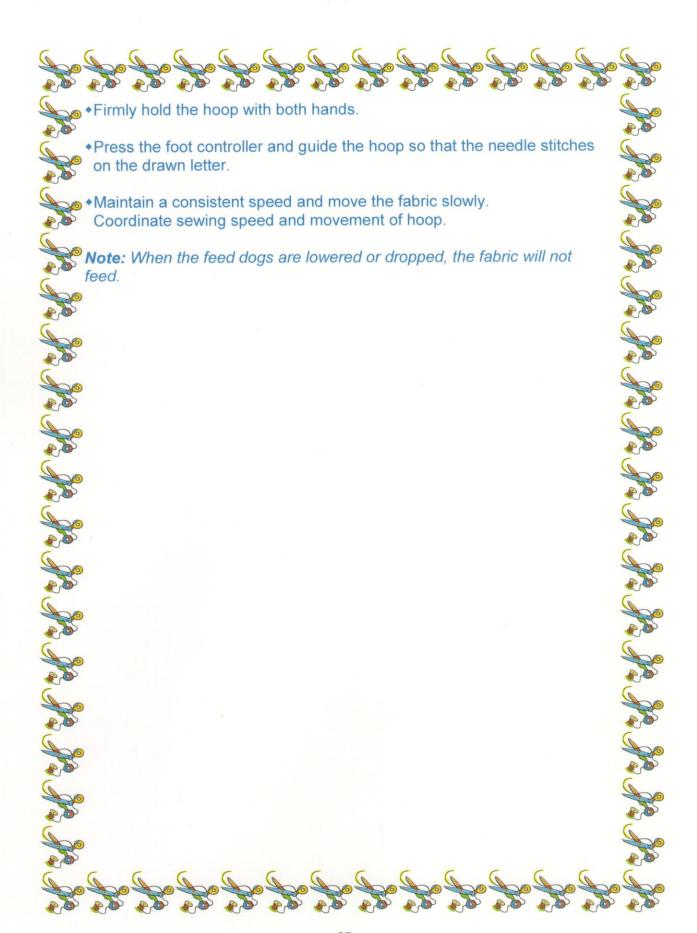
#### **Materials:**

Embroidery Hoop 8" x 8" Cotton with interfacing Fabric Marking Pen

#### Procedure:

- Using the fabric marking pen, draw the desired design or trace a simple design.
- •Place fabric and interfacing in the embroidery hoop, making sure the fabric is taut.
- Place the hoop under the foot, positioning the needle over the starting point of the design.
- Lower the presser foot.
- •Turn the hand wheel forward to bring up the bobbin thread though the fabric. Sew a few securing stitches at the starting point.







Free-motion Stippling is a continuous, meandering line of stitching. Stippling is seen on quilt tops, quilted craft items and on quilted wearable art. Stippling creates a flat area, allowing the non-quilted areas to stand out.



#### **Machine Set-Up:**

Stitch:

#1, Straight Stitch

Stitch Width:

Center Needle Position

Stitch Length:

N/A

Feet Dogs:

Lowered

Presser Foot:

Embroidery/Darning Foot

#### **Materials:**

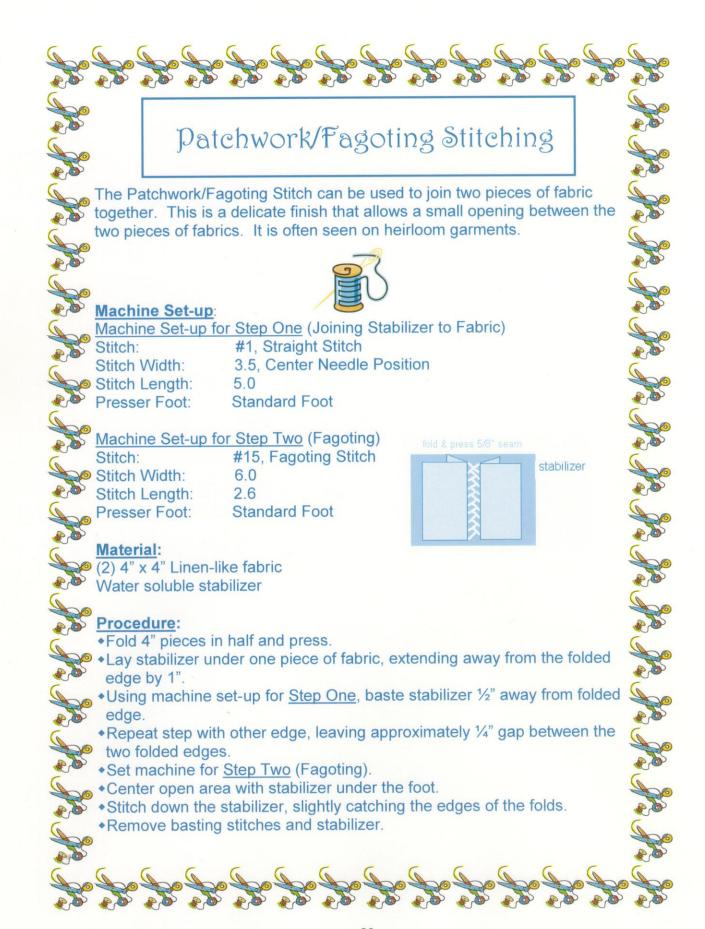
Embroidery Hoop

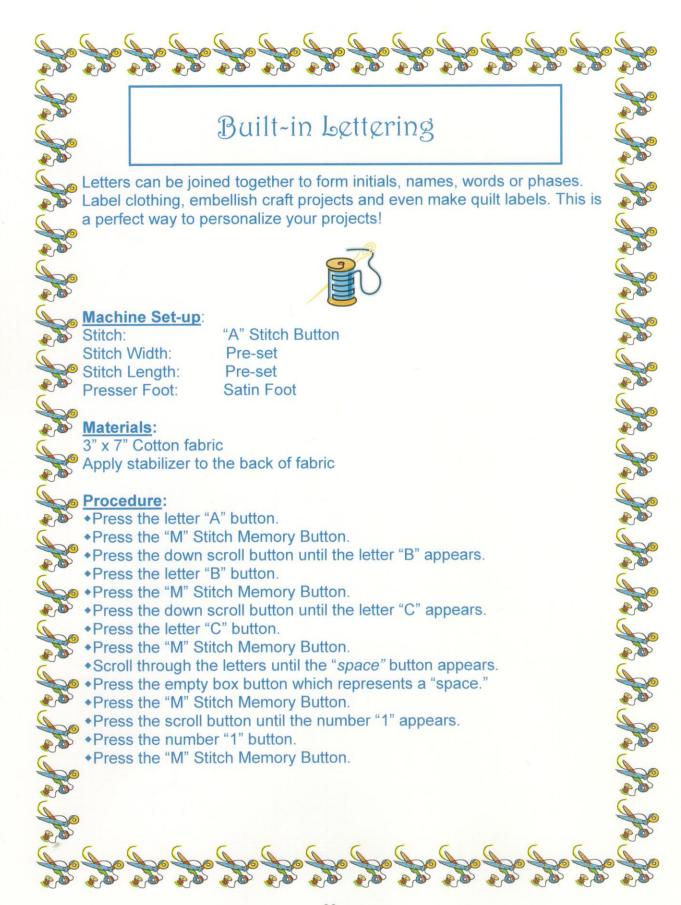
8" x 8" Cotton with a lightweight batting

#### Procedure:

- ◆Place fabric and batting in the embroidery hoop, making sure the fabric is taut.
- •Place the hoop under the foot, positioning the needle over the starting point of the design.
- Lower the presser foot.
- •Turn the hand wheel forward to bring up the bobbin thread through the fabric. Sew a few securing stitches at the starting point.
- •Begin sewing, guiding the hoop to create a meandering line of stitches.









Adding a trim is an easy way to enhance almost any project! The look of a denim jacket can be changed with a row of trim around the bottom edge. A pair of Capri pants can be dressed up by sewing a beaded trim around each pant hem. Home decorating projects such as pillows, bedspreads or table runners can have a "face-lift" by just adding a beaded trim. Use your imagination to come up with your own original creations.



### Machine Set-Up:

Stitch:

#9, Multi-Zigzag Stitch

Stitch Width:

7.0

Stitch Length:

1.0

Presser Foot:

Standard Foot

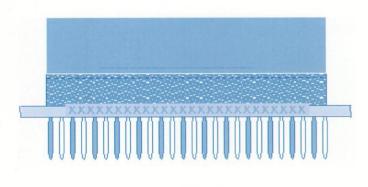


Beaded trim

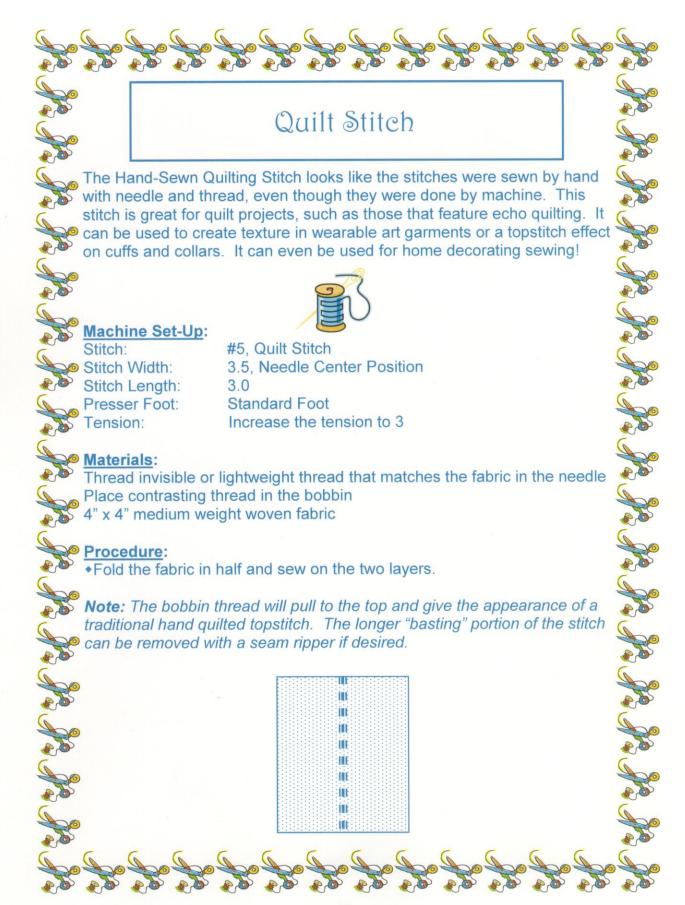
Medium to heavy weight fabric

#### **Procedure:**

- Press and then stitch with a straight stitch a 1" hem in the fabric.
- •Place fabric under the presser foot with wrong side facing up.
- Place trim header on fabric's edge right side facing down.
- Sew on the the trim's header.









Adding a trim is an easy way to enhance almost any project! The look of a denim jacket can be changed with a row of trim around the bottom edge. A pair of Capri pants can be dressed up by sewing a beaded trim around each pant hem. Home decorating projects such as pillows, bedspreads or table runners can have a "face-lift" by just adding a beaded trim. Use your imagination to come up with your own original creations.



### Machine Set-Up:

Stitch:

#9, Multi-Zigzag Stitch

Stitch Width:

7.0

Stitch Length:

1.0

Presser Foot:

Standard Foot

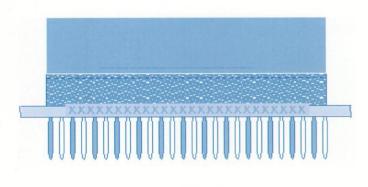


Beaded trim

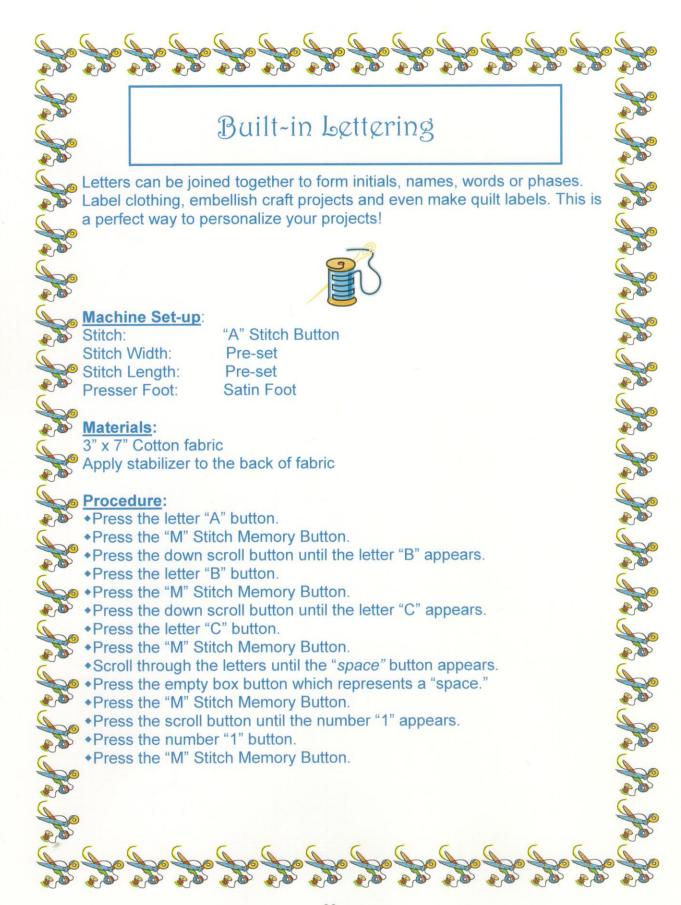
Medium to heavy weight fabric

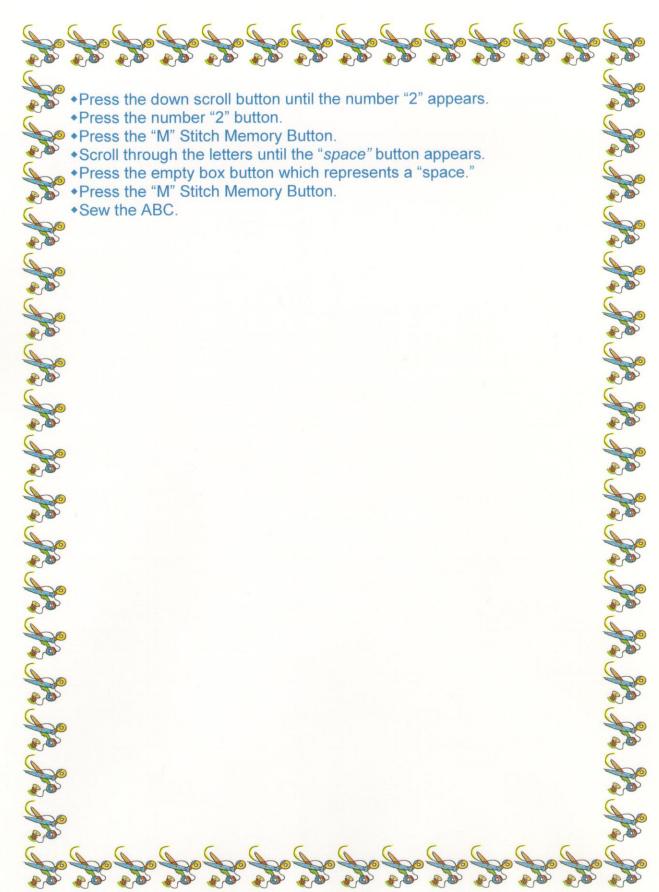
#### **Procedure:**

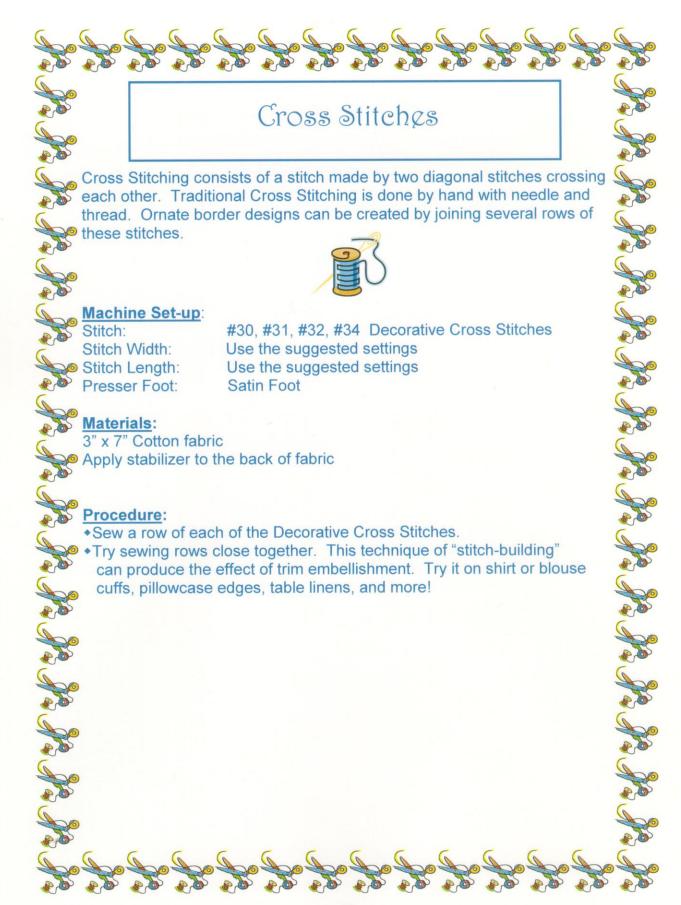
- Press and then stitch with a straight stitch a 1" hem in the fabric.
- •Place fabric under the presser foot with wrong side facing up.
- Place trim header on fabric's edge right side facing down.
- Sew on the the trim's header.

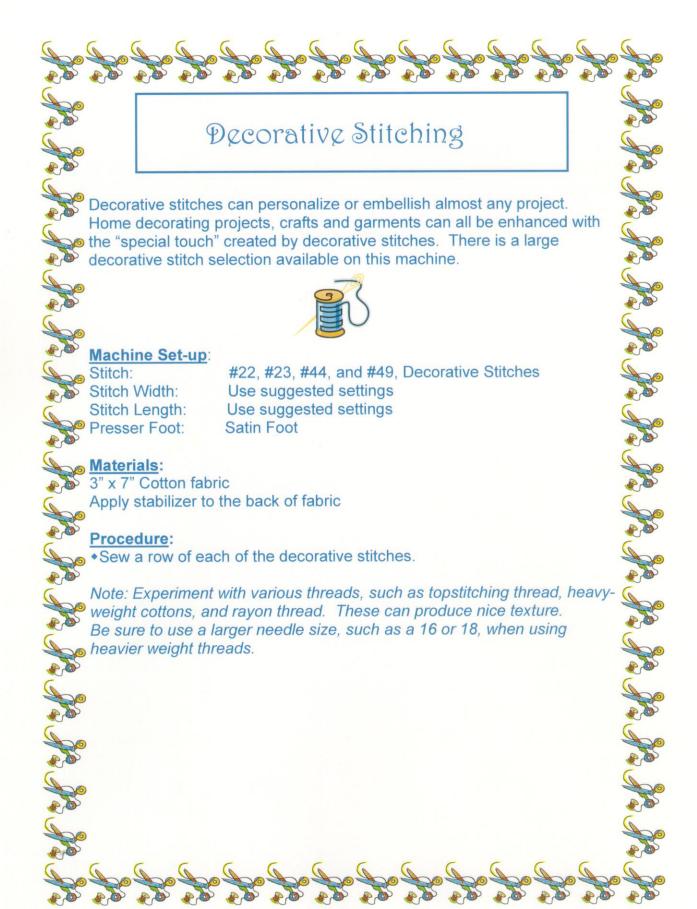


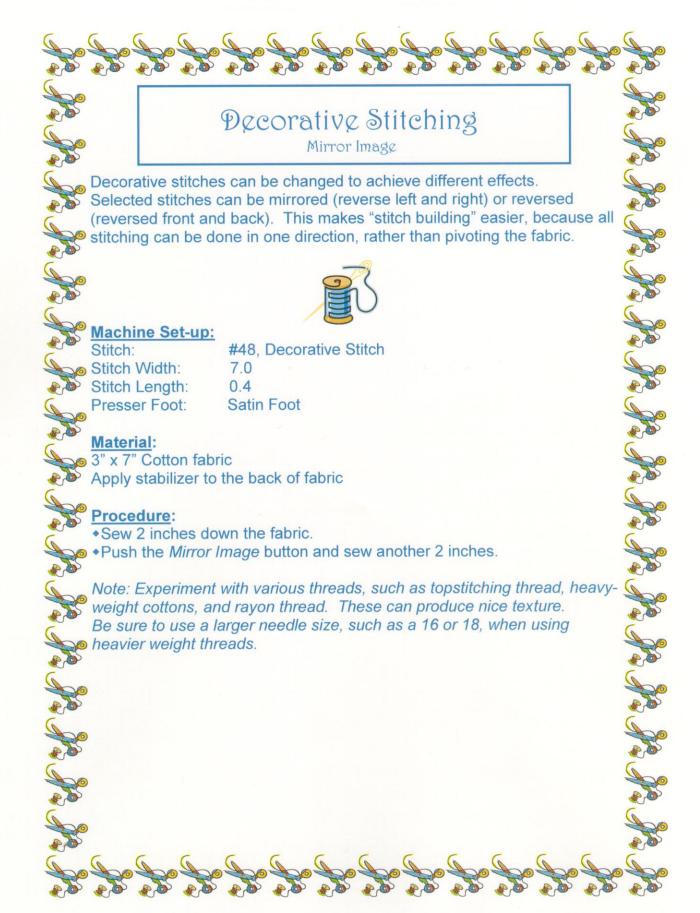


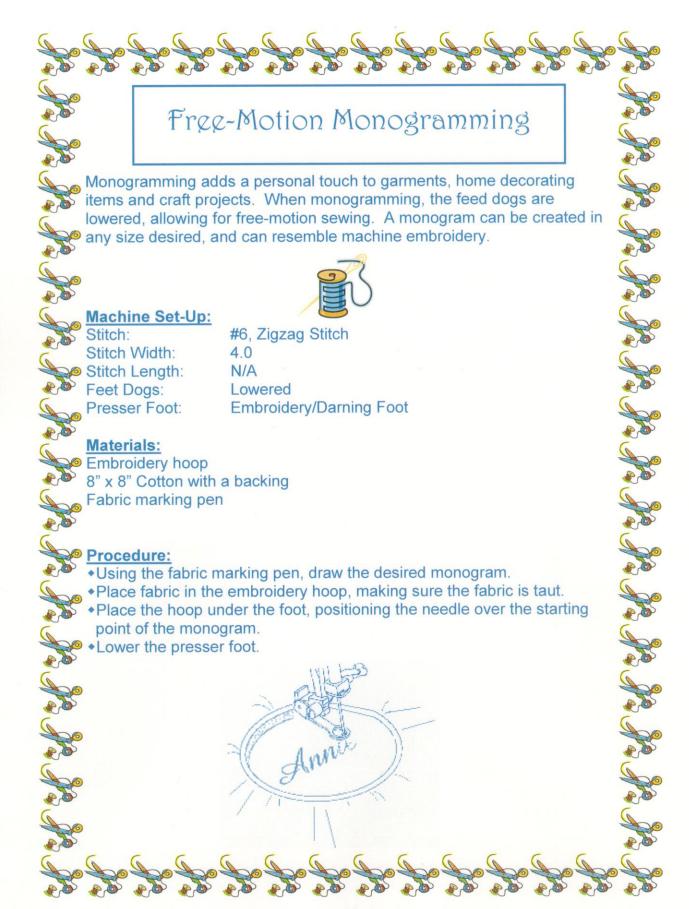


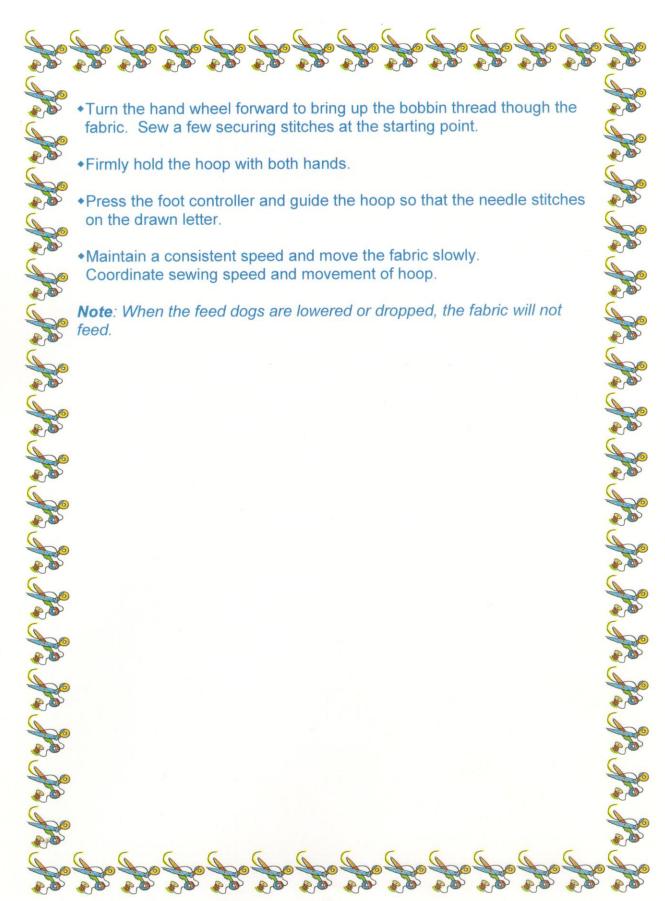


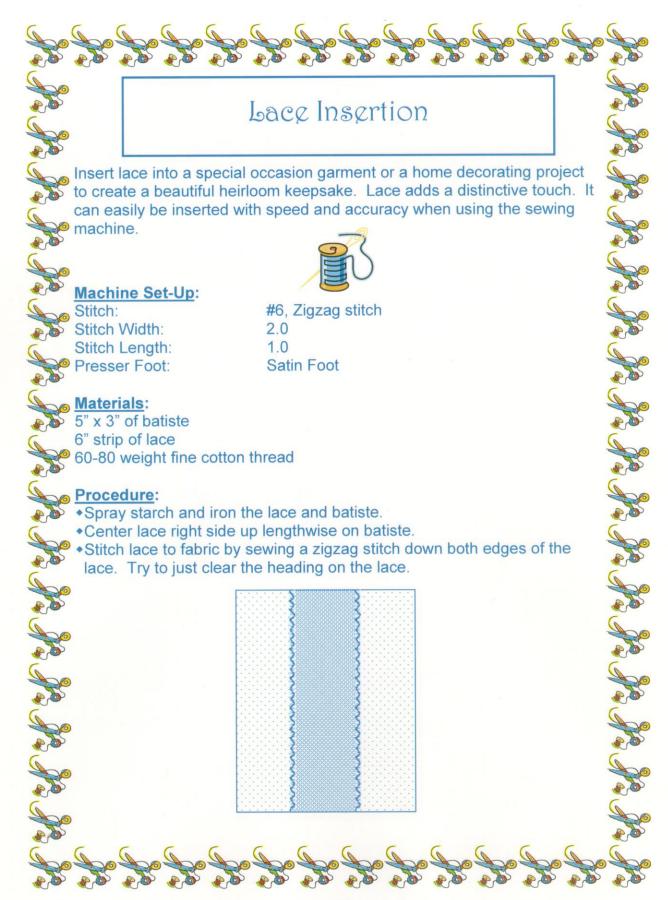


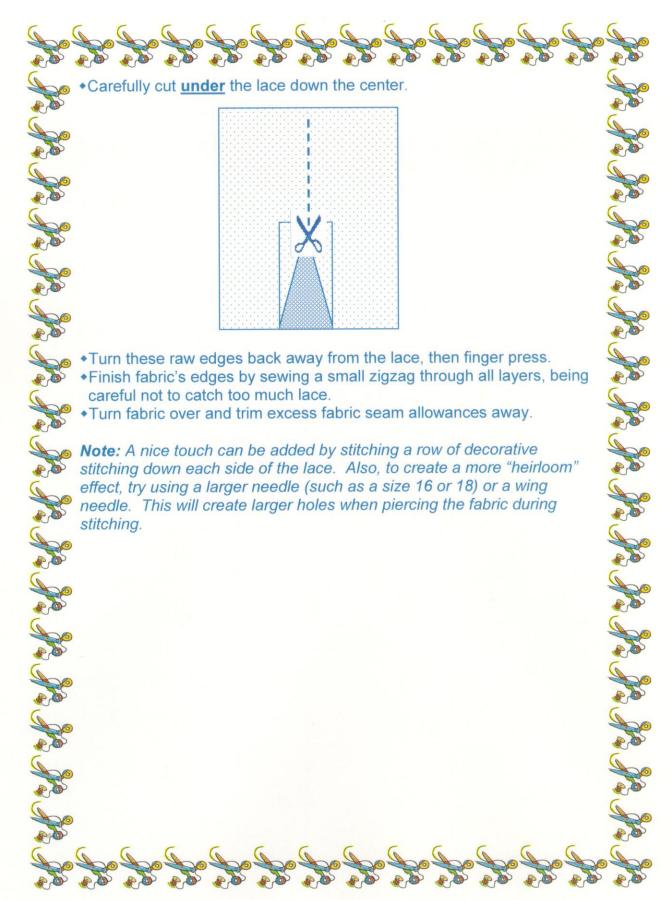


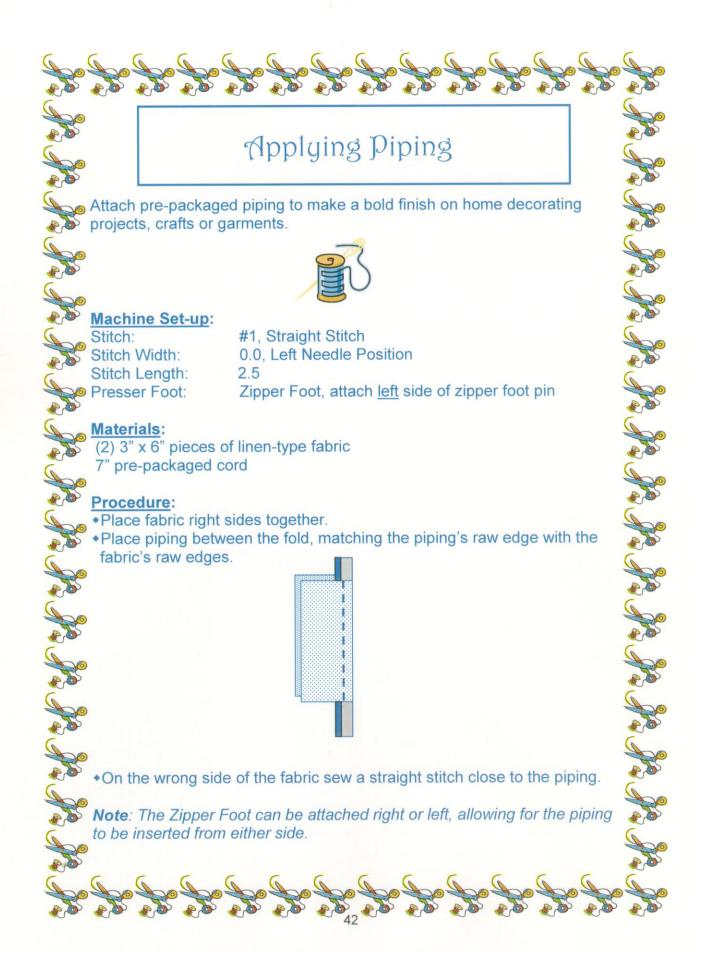














Piping adds a beautiful finish to projects such as pillows, sleeve edges, collars and more. The design of the Zipper Foot allows for the needle to stitch close to the edge of the foot. This is important when inserting zippers, applying piping or when topstitching close to the fabric's edge. Only the Straight Stitch can be used when sewing with the Zipper Foot.



Machine Set-up:

Stitch:

#1, Straight Stitch

Stitch Width:

7.0, Right Needle Position

Stitch Length:

2.5

Presser Foot:

Zipper Foot, attach right side of the zipper foot pin

### Materials:

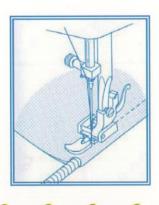
5" x 6" silk-type fabric, cut on bias

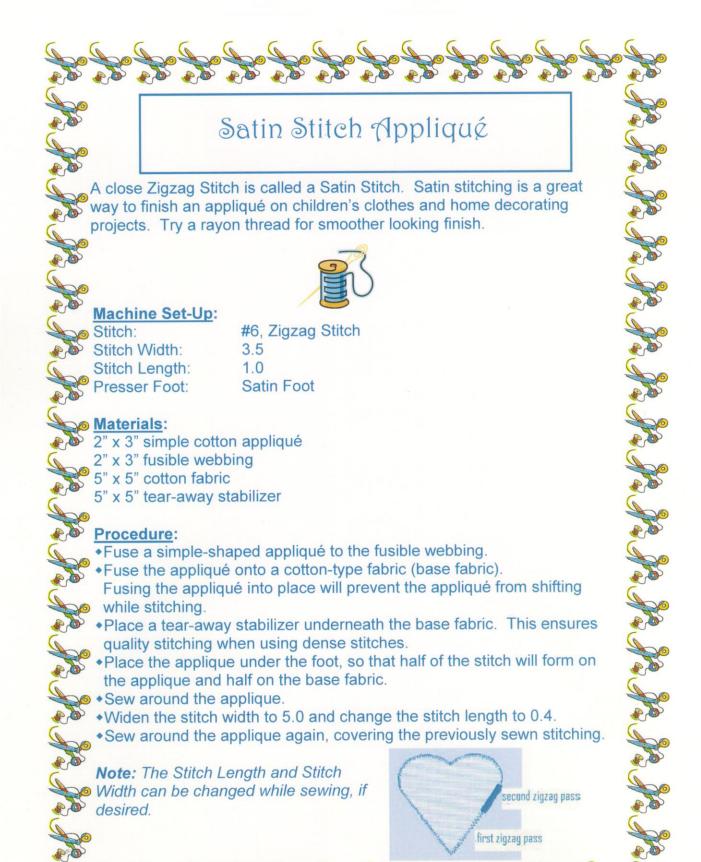
7" of purchased cording

#### Procedure:

- •Fold fabric wrong sides together.
- Place cording inside of the fold.
- On the right side of the fabric, sew a straight stitch close to the piping.

Note: The Zipper Foot can be attached right or left, allowing for the cording to be stitched from either side.









By using a Twin Needle, two parallel rows of stitches can be used to attach a ribbon while stitching.

# Machine Set-Up:

Stitch:

#1, Straight Stitch

Stitch Width:

3.5, Center Needle Position

Stitch Length:

3.5

Presser Foot:

Satin Foot or Standard Foot

Needle:

Twin Needle\*

Needle Setting:

Twin |

### **Materials:**

5" x 5" piece of lightweight woven fabric, with a stabilizer applied 6" piece of ¼" wide satin ribbon

## Procedure:

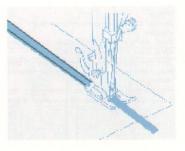
Insert the second spool pin.

•Both spools of thread follow the same threading path until they reach the eye of the needle. Thread each needle separately.

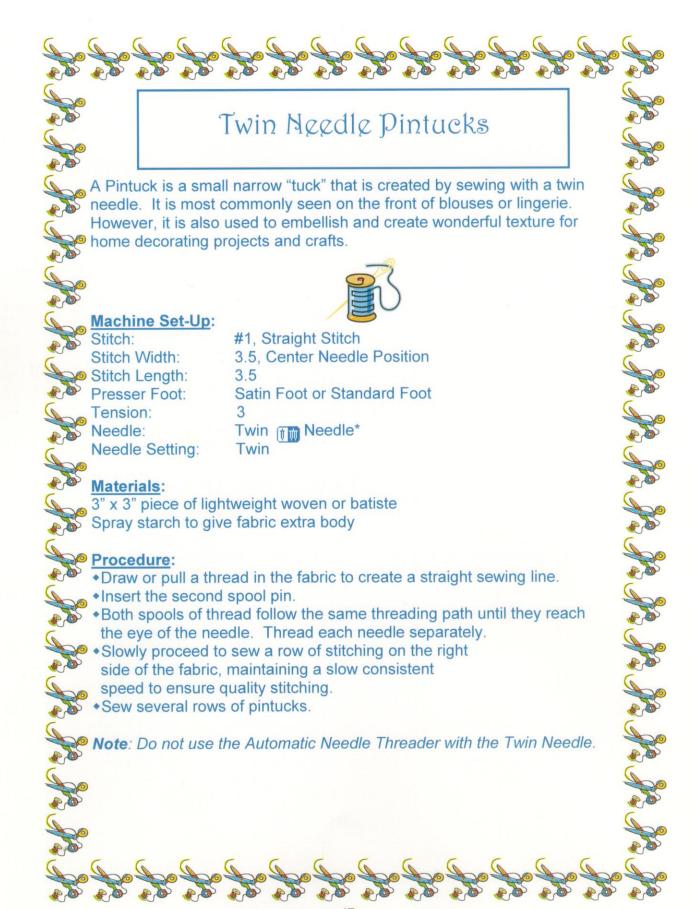
•Insert the ribbon through the opening in the presser foot, pull the ribbon under the foot and then to the back of the foot.

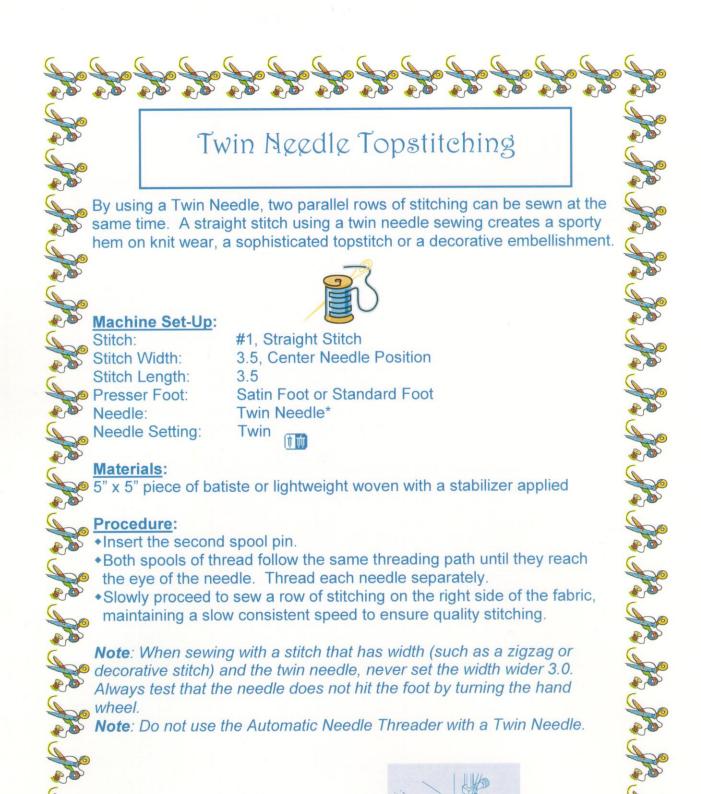
•Slowly proceed to sew a row of stitching on the right side of the fabric, maintaining a slow consistent speed to ensure quality stitching.

**Note**: Do not use the Automatic Needle Threader with the Twin Needle.



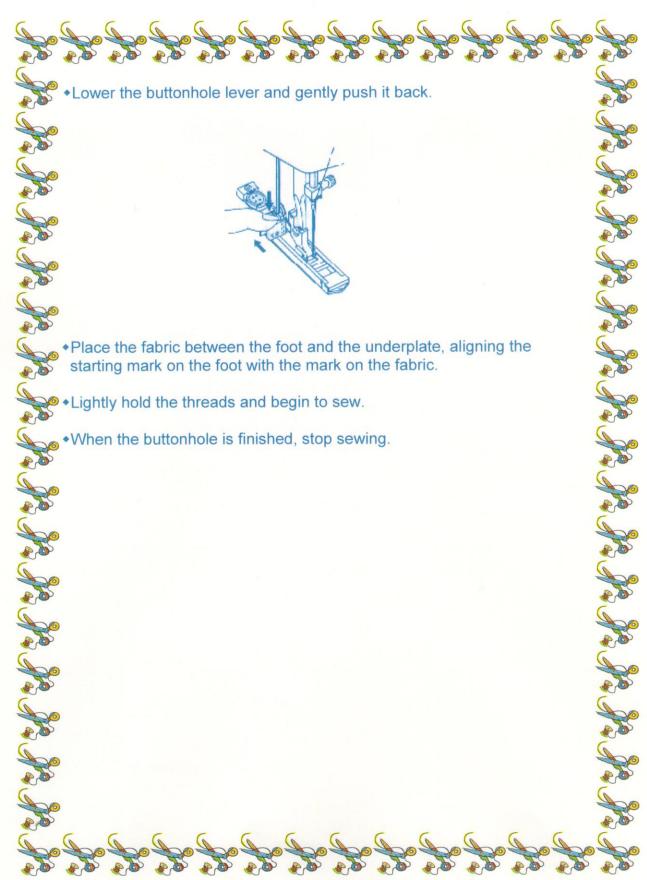
\* Twin needle is an optional accessory.





\*Twin needle is optional accessory.







The Pin Stitch is a delicate stitch commonly used for heirloom projects. It is ideal for joining lace pieces together or for appliquéing.



Machine Set-Up:

Stitch: #19, Pin Stitch

Stitch Width: 2.0 Stitch Length: 2.6

Presser Foot: Standard Foot

## Materials:

2" x 3" simple cotton appliqué

2" x 3" fusible webbing

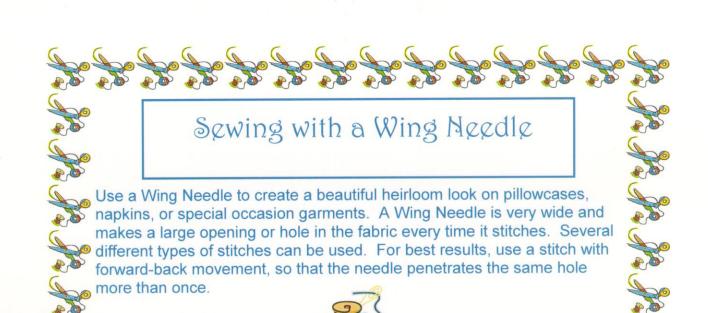
5" x 5" cotton fabric

5" x 5" tear-away stabilizer



#### Procedure:

- •Fuse a simple-shaped appliqué to the fusible webbing.
- ◆Fuse the appliqué onto a cotton-type fabric (base fabric). Fusing the appliqué into place will eliminate the appliqué from shifting while stitching.
- •Place a tear-away stabilizer underneath the base fabric. This is used to ensure quality stitching when using dense stitches.
- Place the applique under the foot, so that the swing of the stitch will form on the applique and straight part of the stitch falls on the base fabric.
- Sew around the applique.



## Machine Set-Up:

Stitch:

#4. Stem Stitch

Stitch Width:

Pre-set

Stitch Length:

2.6

Presser Foot:

Standard Foot

Needle:

Wing Needle\*

### Materials:

Linen or other natural fiber fabric (spray starch for added firmness)

60-80 weight sewing thread in needle

60-80 weight sewing thread in bobbin

#### Procedure:

- ◆Trace a design onto fabric using chalk, water-soluble or air-soluble marker (use stencils, templates or create a design).
- •Stitch along the drawn lines of the design.

Note: Do not use the Automatic Needle Threader with a Wing Needle.

\* Wing needle is an optional accessory.

