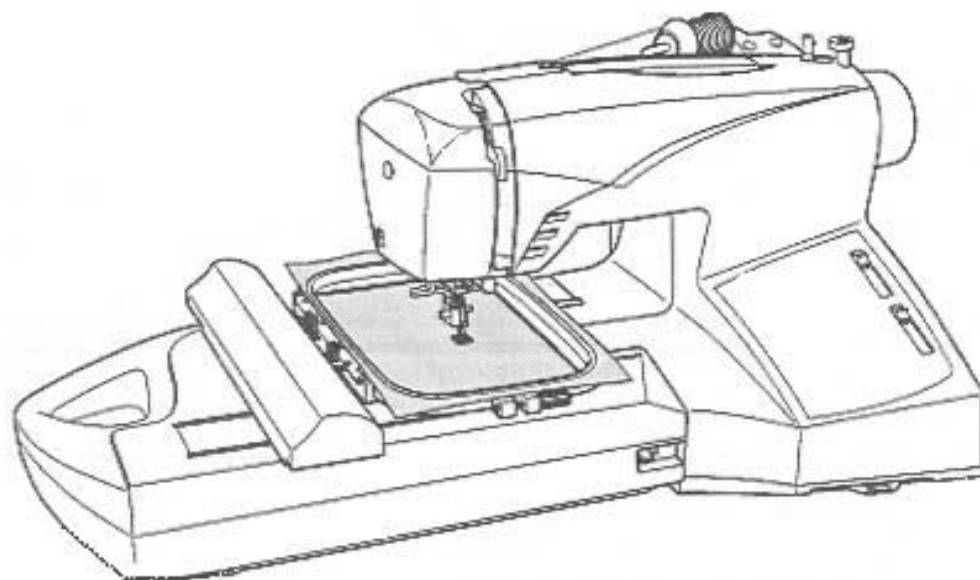


# SINGER®

AT HOME WORLDWIDE



--*futura*<sup>TM</sup>

**STITCH FUNCTION MANUAL**

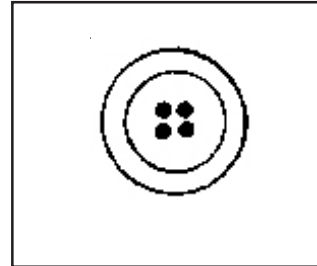


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# Clothing Construction Functions

## Button Sewing



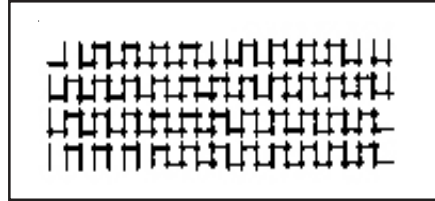
### Machine Preparation:

- Lower Feed Dogs
- To begin, set machine to Straight Stitch
- Presser Foot: Standard Zigzag or **optional** Button foot (part #179911-P)

### Sewing Instructions:

Insert fabric under presser foot. Insert button under foot making sure to align button opening with foot opening. Align needle with the opening (hole) on left side of button. Sew 3 or 4 stitches to secure thread end. Select Zigzag stitch. Set stitch width so that needle clears both button openings (holes) when moving from left to right (always test the width by turning your handwheel manually before sewing). Sew 4 to 5 Zigzag stitches. Select Straight stitch. Make sure the needle is aligned with the left button opening (hole). Sew 3 to 4 stitches to secure thread end.

## Darning



### Machine Preparation:

- Pattern: Straight Stitch
- Stitch Width: Straight
- Stitch Length: Pre-Programmed
- Foot: Embroidery foot supplied with embroidery unit.  
**(DO NOT ATTACH EMBROIDERY UNIT)**
- Drop Feed: Lower feed dogs

### Sewing Instructions:

Hoop the section of clothing requiring darning in the hoop supplied with the embroidery unit. **(DO NOT ATTACH THE EMBROIDERY UNIT)** Reinforce the hole or tear by basting a matching or similar piece of fabric to the underside of the tear. Slip the embroidery hoop under the presser foot (do not forget to lower presser foot) and begin manually feeding the hoop forward and backwards until the hole or tear is completely covered in stitches. Turn the hoop so that the stitching now appears horizontal and repeat the forward and backward movement over the first rows of stitching.

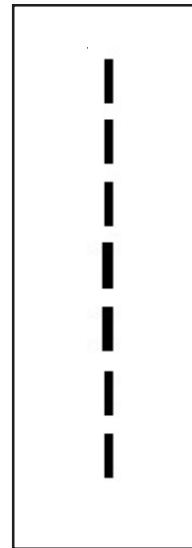
## Staystitching

### Machine Preparation:

- Pattern: Straight Stitch
- Stitch Width: Straight
- Stitch length: 1.5mm (fine)
- Foot: Standard Zigzag foot

### Sewing Instructions:

Staystitching is used to reinforce curves such as armholes, seams in stretch fabrics and other areas to prevent stretching. Stay stitch along the edge of the area 1/4 inch from the edge of the seam.



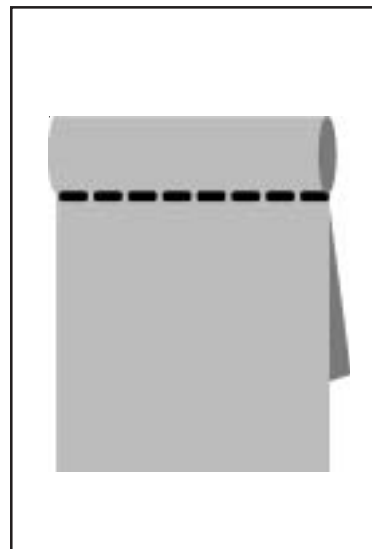
## French Seam:

### Machine Preparation:

- Pattern: Straight Stitch
- Stitch Width: Straight
- Stitch Length: 2 – 3
- Foot: Standard Zigzag or **optional** Zipper foot (part #006905008)

### Sewing Instructions:

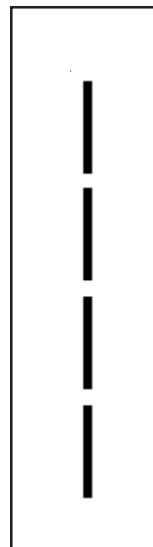
Align top and bottom fabric, undersides together. Stitch at 1/4 of an inch from the edge. Press seam open and then fold in topsides together, with stitching line exactly on fold. Press flat. Stitch 3/8 of an inch from the fold.



## Topstitching

### Machine Preparation:

- Pattern: Straight Stitch
- Needle Position: Center
- Stitch Width: Straight
- Stitch Length: Variable
- Foot: Standard Zigzag or **optional**  
Zipper foot (part #006905008)



### Sewing Instructions:

This function is used to embellish a variety of projects. Sew 1/4 of an inch from the edge of your garment or seam to topstitch.

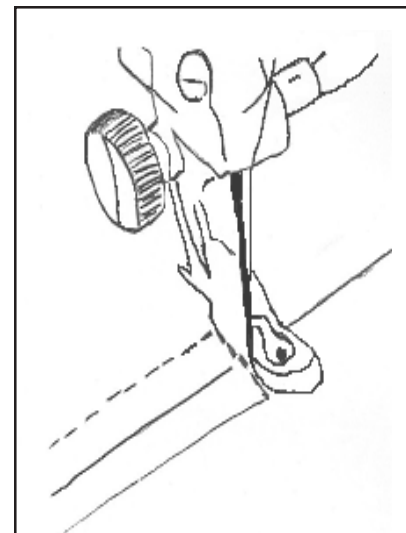
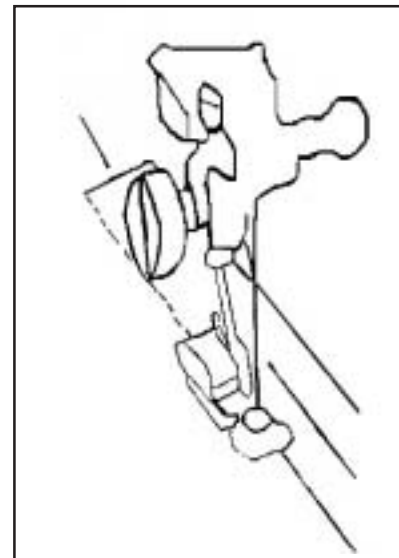
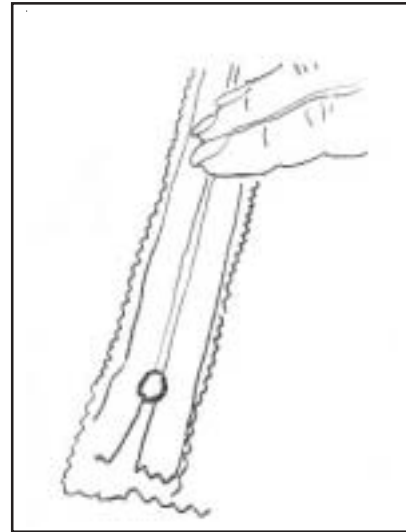
# Zipper Insertion

## Machine Preparation:

- Pattern: Straight Stitch
- Stitch Width: Straight
- Stitch length: Pre-Programmed
- Foot: **Optional** Zipper foot (part #006905008)

## Sewing Instructions:

Machine baste (longest stitch length) seam at 5/8 of an inch. Press seam open and spread garment flat wrong side up. Place zipper face down on seam with coils directly on the seamline. Hand baste zipper into place. Using zipper foot, topstitch zipper from the right side beginning at the bottom of zipper and working your way to the top. Stitch up left side and then right side. For perfect stitching, use 3/4 inch wide tape and tape it down the center of the seam. You can use the tape as a sewing guide.





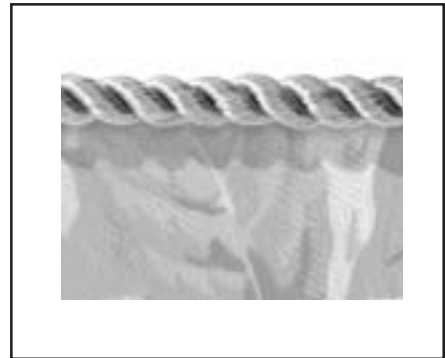
## Piped (Corded) Edge / Welting

### Machine Preparation:

- Pattern: Straight Stitching
- Stitch Width: For straight stitching
- Stitch Length: 2 – 3
- Foot: **Optional** Zipper foot (part #006905008)

### Sewing Instructions:

Use store bought piping or cording or cover cord with a bias strip of fabric to make your own. Hand or machine baste piped edge between 2 layers of fabric so that all raw edges are aligned. Attach zipper foot to shank so that needle passes through the opening on left side of foot. Sew guiding the Zipper foot along the edge of the piping.



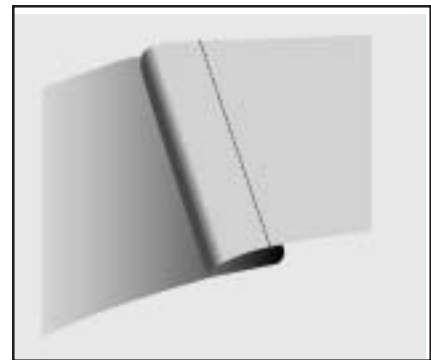
## Flat Fell Seam

### Machine Preparation:

- Pattern: Straight Stitch
- Stitch Width: Straight
- Stitch length: Pre-Programmed
- Foot: Standard Zigzag or **optional** Zipper foot (part #006905008)

### Sewing Instructions:

Baste fabric wrong sides together at seamline. Stitch at 5/8 of an inch from the edge. Press the seam allowances to one side of the seam, and trim away the lower seam allowance to 1/8 of an inch. Turn in top seam allowance 1/4 of an inch (to edge of stitching) and press. Baste seam allowance to garment, concealing the trimmed lower seam. Stitch along the edge of the fold.



# Decorative Functions

## Satin Stitch Appliqué & Blindstitch Appliqué

- Pattern: Zigzag or Blindhem
- Stitch Width: 1.5 (1/16 of an inch)
- Stitch Length: 0.5 – 1.5 for Zigzag, 2 – 3 for Blindhem
- Foot: Standard Zigzag or **optional** Blindhem foot (part #010400)

### Sewing Instructions:

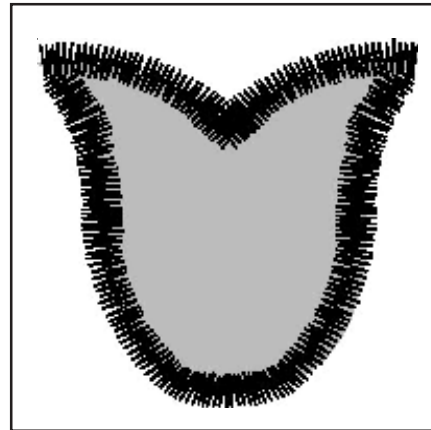
Position appliqué piece on background fabric and secure it in place using fabric glue. Align needle so that it pierces background fabric along the outside edge of the appliqué. Lower presser foot. For **Satin Stitch Appliqué**, use Zigzag stitch and proceed to sew following the edge of the appliqué.

For **Blindstitch Appliqué** use Blindhem stitch and proceed to sew following the edge of your appliqué.

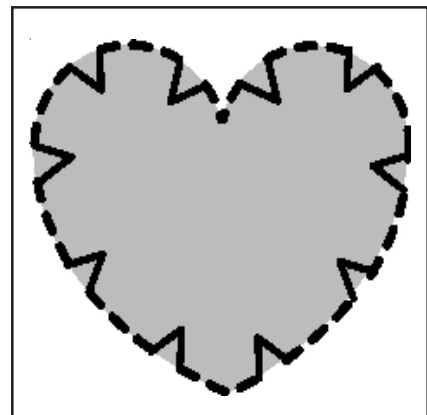
If using a Blindhem foot, align the lip of the blind hem foot guide so that it sits directly under the edge of the appliqué. You may need to adjust the position of the guide to bring it closer or further from the edge of the appliqué, by using the thumbscrew located at the right of the foot.

To pivot for curves or corners, leave needle down in fabric on outside edge of appliqué, lift foot and pivot.

Satin Stitch



Blindstitch

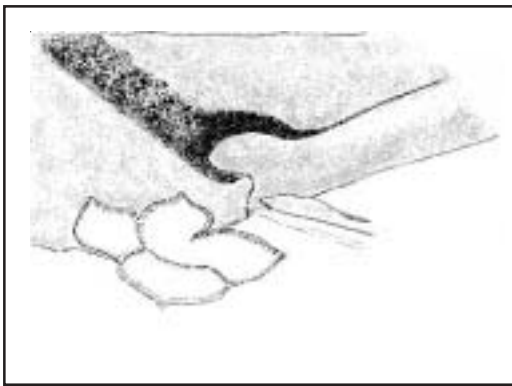


# Shadow and Cutwork Appliqué

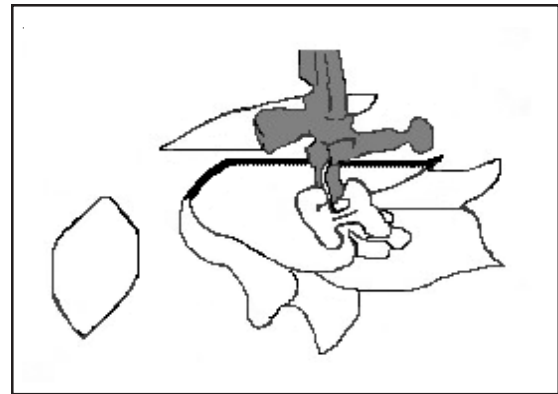
## Machine Preparation:

- Pattern: Blanket Stitch # 13 reversed for Shadow and Zigzag for Cutwork
- Stitch Width: 2.0 or desired width
- Stitch Length: Preprogrammed for blanket, 0.5 to 1.5 for Zigzag
- Foot: Standard Zigzag or **optional** Blindhem foot (part #010400)

Shadow



Cutwork



## Sewing Instructions:

**Shadow appliqué** is where a lightweight colored fabric is layered under a sheer or transparent fabric. Position colored fabric larger than the design area on the underside of the transparent fabric and secure it in place using a basting stitch or fabric glue. Using a marking pencil trace placement of the appliqué on the right side of the transparent fabric. Stitch along design lines using the blanket stitch so that when the needle swings to the right it sews on the design line and when it swings to the left it sews within the design area. When design is complete, trim excess colored appliqué fabric on the underside close to the stitching.

For **Cutwork appliqué**, 2 layers of sheer fabric are stitched together, and the top layer of fabric is trimmed away from the right side to create a sheer opening. Position sheer fabric larger than the design area on the underside of the transparent fabric and secure it in place using a basting stitch or fabric glue. Using a marking pencil trace placement of the appliqué on the right side of the top layer of sheer fabric. Stitch along design lines using a straight stitch. When straight stitching is completed, trim the top layer of fabric close to the stitching within the design area.

Once trimming is completed, set machine to Zigzag stitch and sew along design lines so that when the needle swings to the right it sews on the design line and when it swings to the left it sews within the design area. When design is complete, trim excess appliqué fabric on the underside close to the stitching. To pivot for curves or corners, leave needle down in fabric on outside edge of appliqué, lift foot and pivot.

# Thread Painting and Sketching

## Machine Preparation:

- Pattern: Straight Stitch and Zigzag Stitch
- Stitch Width: Straight and desired width for zigzag
- Stitch Length: Pre-Programmed
- Foot: Embroidery foot supplied with embroidery unit.  
**(DO NOT ATTACH EMBROIDERY UNIT)**
- Drop Feed: Lower feed dogs

## Sewing Instructions:

Stencil or draw your pattern onto the right side of your fabric. Hoop your fabric into the hoop supplied with the embroidery unit, and slip it under the embroidery foot.

**(Do not attach the embroidery unit to the machine)**

For **Thread Sketching**, set your machine for Straight stitch, and stitch as if your needle is your pencil. Follow the design that you have traced onto your fabric, by moving the hoop manually.

For **Thread Painting** (fill-in stitches), set your machine to Zigzag stitch at the width desired and begin to fill in the design area by moving the hoop manually. To create shading in your design, change the thread color frequently, leaving a jagged edge for blending in the next color. To secure thread ends when changing colors, set stitch width to 0 and stitch in place a few times.

## Painting

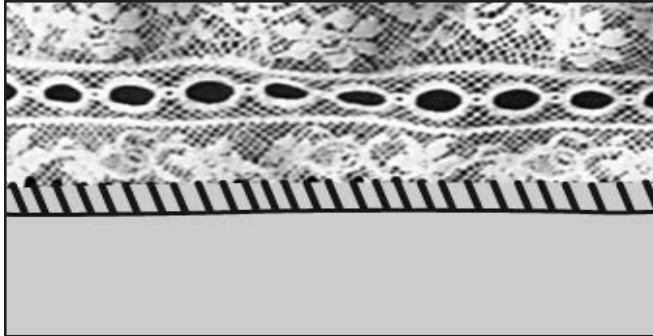


## Sketching



# Heirloom Functions

## Hemstitched Lace Insertion



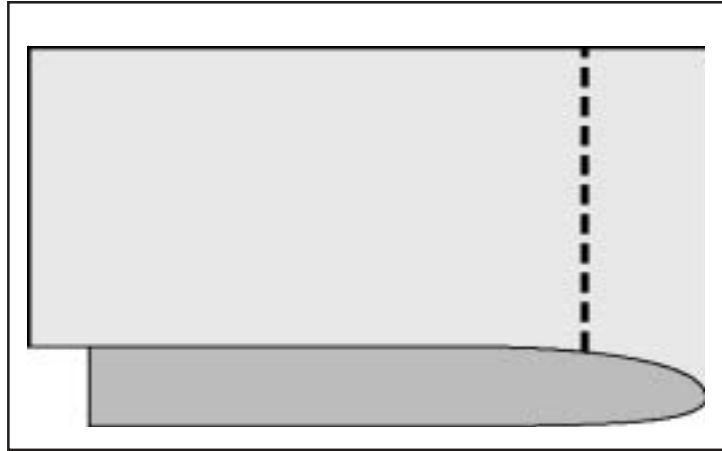
### Machine Preparation:

- Pattern: Straight Stitch and Hemstitching Pattern #14
- Stitch Width: Preprogrammed
- Stitch Length: Preprogrammed
- Foot: Standard Zigzag or **optional**  
Satin foot (part #006172008-P)

### Sewing Instructions:

Using a marking pencil, draw a placement line for the lace along the edge of your garment. Baste or pin the lace along this placement line on the right side of the fabric. Straight stitch along each edge of the lace, as close to the edge as possible. Cut down the centre of the fabric under the lace, taking care not to cut the lace. Press fabric edge on each side away from the lace. Set machine to hemstitching and stitch along the fabric edge on each side of the lace on the right side of the fabric. Trim excess fabric close to stitching on wrong side of fabric.

## Traditional PinTucks



### Machine Preparation:

- Pattern: Straight
- Stitch Width: Straight
- Stitch Length: 2 – 3
- Foot: Standard Zigzag or **optional** Zipper foot (part #006905008)

### Sewing Instructions:

To mark pintucks in your fabric, either pull a thread to mark the fold or mark with chalk or marking pencil. Fold and press wrong sides together on pulled thread line or marked lines. Stitch 1/8 of an inch from fold line. Repeat, sewing in the same direction for each tuck. Press flat.

# Home Decor Functions

## Gathering



### Machine Preparation:

- Pattern: Straight Stitch
- Stitch Width: Straight
- Stitch Length: Longest
- Foot: Standard Zigzag

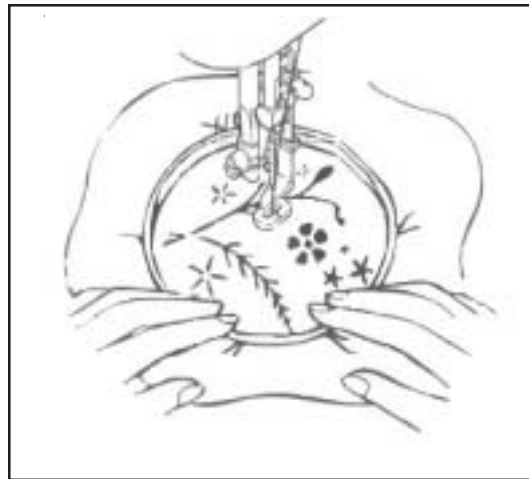
### Sewing Instructions:

Use this technique for gathering waistbands, sleeve caps etc. At 1/4 of an inch from the edge of the seam, begin by backstitching and then continue to sew the length required. When seam is complete, raise the needle to it's highest, raise the presser foot and pull the upper and lower threads to the back of the foot. Cut your thread ends leaving a minimum 6 inches of thread. Repeat this procedure once again at 1/4 of an inch from your first row of stitching. Once the two rows are completed, draw in your fabric the required amount by pulling on the bobbin thread. Secure thread ends.

# Free Hand Embroidery and Monogram

## Machine Preparation:

- Pattern: Zigzag Stitch
- Stitch Width: Desired width for zigzag
- Stitch Length: Pre-Programmed
- Foot: Embroidery foot supplied with embroidery unit  
**(DO NOT ATTACH EMBROIDERY UNIT)**
- Drop Feed: Lower Feed dogs



## Sewing Instructions:

Stencil or draw your pattern or monogram onto the right side of your fabric. Hoop your fabric into the hoop supplied with the embroidery unit, and slip it under the Embroidery foot. **(Do not attach the embroidery unit to the machine)**

Set your machine to Zigzag stitch at the width desired and begin to fill in the design area by moving the hoop manually. To secure thread ends, set stitch width to "0" and stitch in place a few times. Hand movement will control the quality and the look of your stitching.



# Couching and Corded Satin Stitching

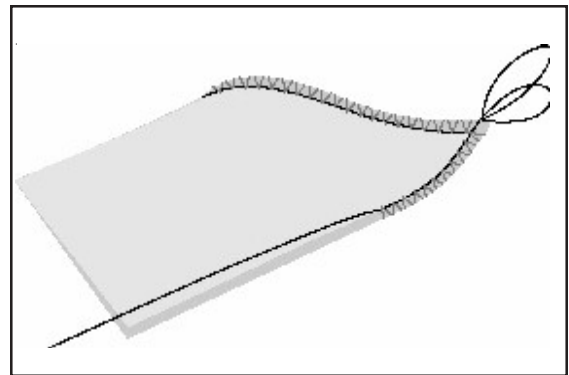
## Machine Preparation:

- Pattern: Zigzag
- Stitch width: Variable (Set according to width of cord)
- Stitch length: Variable
- Foot: Zigzag or **optional** Satin foot (part #006172008-P)

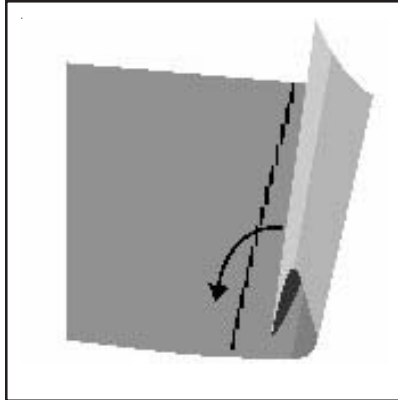


## Sewing Instructions:

Couching and Corded Satin Stitching is simply the technique of zigzagging over a fine cord. Use as a decorative touch on jackets and other sewing projects. With a marking pencil, draw a design on your fabric. Lay the cord under the center opening of your foot and zigzag over the cord so that the needle falls just to the right and left of the decorative cord. As you sew, follow the lines of your design. For couching, set the stitch length at the pre-programmed length and for corded satin set the stitch length shorter for a satin effect.



## Interlocking Felt Seam



### Machine Preparation:

- Pattern: Straight Stitch
- Stitch Width: Straight
- Stitch length: Pre-Programmed
- Foot: Standard Zigzag or **optional** Zipper foot (part #006905008)

### Sewing Instructions:

Baste fabric right sides together with edge of top layer 1/2 inch from the edge of the bottom layer. Stitch at 3/4 of an inch from the edge of the bottom layer. Fold the bottom layer of seam allowance, so that it meets top layer (approx 1/4 of an inch). Press. Fold and press bottom layer again so that it now meets the stitching line. Edgestitch close to the fold. Press seam to one side.

# Quilting Functions

## Template, Motif and Stipple Quilting

### Machine Preparation:

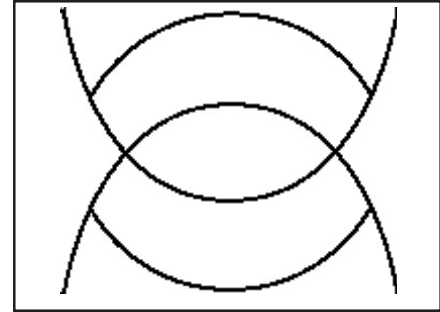
- Pattern: Straight Stitch
- Needle Position: Center
- Stitch Width: Straight
- Stitch Length: 2 - 3
- Foot: Use embroidery foot supplied with the embroidery unit.  
**(DO NOT ATTACH EMBROIDERY UNIT)**
- Drop Feed: Drop feed dogs.

Before you begin to sew, you must hoop the fabric (all layers) in one of the hoops that was supplied with the embroidery unit. The hoop will not be attached to the embroidery unit, rather you will feed it manually under the embroidery foot.

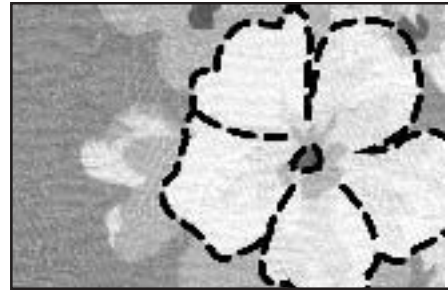
### Sewing Instructions:

For template quilting transfer a design from a template (plastic stencil) to your fabric and then stitch following the outline. Motif quilting is used to emphasize the printed design of a fabric and is accomplished by outlining the desired motif. Stippling is free motion quilting where you hoop the fabric and guide it by hand, allowing you to stitch in any direction. All of the above techniques are used to hold the layers of the quilt together.

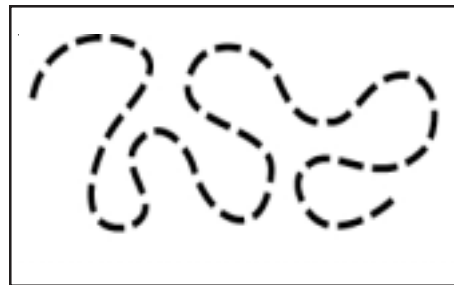
Template



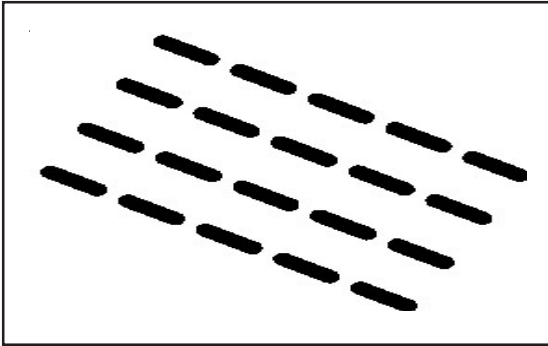
Motif



Stippling



## Channel Quilting



### Machine Preparation:

- Pattern: Straight Stitch
- Needle Position: Center
- Stitch Width: Straight
- Stitch Length: 2 - 3
- Foot: Use Zigzag or General Purpose Foot  
You may also use the **optional**  
Even Feed foot (part #423242451-P)

### Sewing Instructions:

For channel quilting, simply sew several long parallel lines of straight stitching through all layers of the quilt. These lines can be sewn diagonally, horizontally or vertically.