SINGER
AUTOMATIC ZIGZAGGER

THE SINGER MANUFACTURING COMPANY
INSTRUCTIONS FOR USING

SINGER®

AUTOMATIC ZIGZAGGER

No. 161102 on SINGER® Sewing Machines of Classes 15, 201, 221 and 1200
and
No. 161103 on Machines of Class 301

This wonderful SINGER fashion aid will enable you to produce an infinite variety of attractive ornamental designs merely through the interchange of the different Stitch Patterns and the adjustment of the bight and stitch length. Such decorative effects as applique, scalloped edges, border designs, as well as blind stitched hems and simple mending can be produced with this attachment on women's and children's clothing, lingerie, linens, draperies and an unlimited array of other garments and household items.

With the flick of a lever, plain sewing may be done without removing the zigzagger from the sewing machine.

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ZIGZAG STITCH PATTERN

Zigzag Stitch Pattern 161000 produces a uniform zigzag stitch for appliqueing, tatting, joining or inserting lace, reinforcing plain or well seams, making invisible seams in all over lace or embroidery and seam finishes. It is also useful for making border designs by varying length and stitch settings. Many interesting designs for women’s and children’s clothing, as well as linens and curtains may be developed by using different settings.

(A) To lock the pattern upon completion of the stitching, set attachment in straight stitching position and sew three or four very short stitches.

(B) When sewing on soft, sheer, textured or loosely woven fabrics, use a basting of one or two thicknesses of crisp linen, taffeta or organdy and cut away the basting when design is completed.

(C) When a pattern is to be stitched close to the edge of the fabric, a straight line of stitching should be made to stay the fabric. Regulate height and stitch to produce the most pleasing results. The ornamental stitch may be sewn over the straight stitching.

TO FASTEN ZIGZAGGER TO MACHINE

1. Raise presser bar, remove presser foot and thumb screw from machine.
2. Guide zigzagger into position from rear of machine so that fork A straddles hub of needle clamp and is secured, with screwdriver, shank C of zigzagger to presser bar with clamping screw K.

STITCH PATTERNS

Four Stitch Patterns are illustrated with Zigzagger for producing the basic design shown on pages 4 to 7.

Each design can be greatly varied by changing the length and stitch settings as indicated in the illustrations.

Combinations of all the designs made by the Stitch Patterns may be used to produce many pleasing ornamentations.

BLIND STITCH PATTERN

Blind Stitch Pattern 61001 produces a curved line and a narrow sideway stitch at start and at completion of curve. Width and length of curve depend on length of line of stitch. This Stitch Pattern is ideal for hems, for overeding very narrow hems, for overeding seam edges, for mending fringed edges and drawn work, and for stitching tucks. The tiny scallops are decorative and, by combining with other Stitch Patterns, many attractive effects can be obtained for borders.

Direction of stitching is left to right.

Follow instructions A and B on page 4 when this pattern is used for decorative stitching.
DOMINO STITCH PATTERN

The charming effects obtained with decorative Domino Stitch Pattern 161002 are unlimited. Border designs or motifs on pockets and collars are especially effective when made with this Stitch Pattern and applied to linens, children’s clothes and play clothes. Combine the Domino with Zigzag Stitch Pattern (using Satin Stitch adjustment of approximately No. 30 stitch setting) for monograms made in black letter designs. The spaces and solids of the domino stitch are equally proportioned when the width is set at 63 and the stitch regulator at 30.

(A) To lack the pattern upon completion of the stitching, set attachment in straight stitching position and sew three or four very short stitches.

(B) When sewing on soft, sheer, textured or loosely woven fabrics, use a backing of one or two thicknesses of crisp lawn, tafetta or organdy and cut away the backing when design is completed.

(C) When a pattern is to be stitched close to the edge of the fabric, a straight line of stitching should be made to stay the fabric. Regulate height to produce the most pleasing results. The ornamental stitch may be sewn over the straight stitching.

ARROWHEAD STITCH PATTERN 161003

Arrowhead Stitch Pattern 161003 produces a design which is ideal for ornamental purposes. The size of Arrowhead is determined by the height setting and texture of material. Stitch setting should be short (approximately No. 30) for a solid effect.

For any desired spacing between Arrowheads, pull lever B, Fig. 10, page 10 forward for straight stitching and count number of stitches for a given space. When desired spacing is obtained, push lever B back for zigzag stitching. Arrowhead is most distinct when height is set at W and stitch regulator at No. 30.

Direction of stitching is left to right. Follow instructions A, B and C on page 6.

TO REMOVE AND REPLACE STITCH PATTERNS

1. RAISE PRESSER BAR.

2. Lift and swing back cover as shown in Figs. 7 and 8.

3. Lift out Stitch Pattern.

4. Select desired Stitch Pattern, place it in position and turn it in a clockwise direction until it drops in place.

5. Close cover.

6. Turn stitch pattern so that arrow M, Fig. 9 points to line N on top of cover. This setting denotes the beginning of the Zigzag, Domino and Arrowhead patterns and the central position for all other patterns. It also centers the foot for straight stitching.

TO ADJUST HEIGHT OR SIDEWISE MOVEMENT OF PRESSER FOOT

The setting of height scale Q, marked with the letters H (for narrow height), M (for medium height) and W (for wide height), determines the width of the design.

To adjust height:

1. RAISE PRESSER BAR.

2. Loosen lock screw J.

3. Grasp handle G and slide the regulator forward or backward until desired height is obtained.

4. Tighten lock screw J.

The length and width of all designs depend on the stitch and height settings.
TO ADJUST ZIGZAGGER FOR STRAIGHT STITCHING

1. Stop machine when zigzag foot is in central position with arrow M, Fig. 9 opposite line N.

2. Pull lever B, Fig. 10 toward you. Plain sewing can then be done.

To resume zigzag stitching, push lever away from you.

Fig. 10: To Adjust Zigzagger for Straight Stitching

THREADS

No special threading is required. No. 55 mercerized cotton and size A silk threads may be used. For these threads be sure to use size 14 needle. Mercerized embroidery cotton threads will produce improved effects.

TENSIONS

When making solid designs, such as zigzag with stitch, domino or arrowhead, operate machine with a tighter thread tension than for ordinary sewing.

PRESSURE ON FOOT OF ZIGZAGGER

Slightly less pressure than for normal sewing will be required to allow for proper sideways movement of fabric when making intricate stitch patterns. The amount of pressure should be varied according to the surface and texture of the fabric. Pressure is regulated by turning knurled thumb screw on top of machine arm in counter-clockwise direction to reduce pressure, or clockwise to increase pressure.

SEWING SPEED

Operate sewing machine slowly and hold material loosely so that it moves freely with zigzagger foot.

Do not operate sewing machine without material underneath zigzagger foot.

Fig. 11: Border Design

DESIGNS PRODUCED WITH ZIGZAG STITCH PATTERN

For Center Bar—use Medium Right Approximately No. 30 Stitch Setting.

For Next Rows—use Medium Right No. 13 Stitch Setting.

For Side Bars—use Medium Right Approximately No. 30 Stitch Setting.

For Outside Rows—use Wide Right No. 8 Stitch Setting.

Fig. 12: Border Design on Woman’s Dress

SUITABLE MATERIALS

Firm cotton fabrics such as lawn, organdy, broccoli, poplin, chambrey, Indian Head, denim, polished cotton, cotton twill, satin and gingham are suitable for use with the zigzagger. Linen, sheer voile, silk, felt and synthetic fabrics of firm weave are also effectively stitched.

TO PREPARE FOR ORNAMENTAL STITCHING

Lay both threads back under presser foot diagonally across the feed to the right or left so that when the presser foot is lowered, the threads will be firmly held between the feed, material and zigzagger foot.

PREPARATION OF MATERIAL

Always test stitch on a scrap piece of the material to which design is to be applied, since the light may have to be adjusted to suit the weave, the texture or finish of fabric. You may find it more satisfactory to use one or two plies of thinning or any of crisp lawns, taffeta, or organdy with sheer materials or with other materials if the design is on the bias or slightly off grain. The backing is basted to underside of material and then, when design is completed, trimmed away close to design.

For making border designs, mark parallel lines or scallops on fabric with a light brush of the pencil or with chalk. Some basting adjacent to the edge is recommended to avoid creasing of fabric.

TO START STITCH PATTERN

Set Stitch Pattern so that arrow M, Fig. 9 is directly opposite line N on cover of zigzagger. If, for any reason (such as thread breaking or bobbin running out of thread), it is necessary to start in middle of a design, stitch on a scrap of material until that point in design is reached. Then place work under needle at exact point in design. Continue to stitch.

Fig. 13: Appliqué

Trade Cloth Border

Fig. 14: Scalloped Edge

Fig. 15: Lace Hem and Lace Edge, using Narrow Right and No. 18 Stitch Setting
WORK PRODUCED WITH BLIND STITCH PATTERN

Fig. 16. Blind Stitched Hem in process
Use Medium Tension, No. 10 Stitch Setting

Fig. 17. Underside of Completed Blind Stitched Hem with Seam Tape
Use Medium Tension, No. 10 Stitch Setting

Fig. 18. Luncheon Set Made with Blind Stitch Pattern at Edges of Dinner Napkin

DESIGNS PRODUCED WITH DOMINO STITCH PATTERN

Fig. 19. House with Blind Stitch Border Design

Fig. 20. Girl’s Dress with Border Design in Domino Stitch Pattern

Fig. 21. Border Design
Use approximately No. 30 Stitch Setting and alternate rows of Narrow and Medium Height.

Fig. 22. Child’s Coat and Bonnet with Domino Stitch Border

Fig. 23. Serrated Border Design
For Center Row — use Domino Stitch Pattern.
For Outside Rows — use Zigzag Stitch Pattern.
For All Rows — use Medium Height and approximately No. 30 Stitch Setting.
ADDITIONAL STITCH PATTERNS

Additional Stitch Patterns may be purchased at your local SINGER SEWING CENTER. Four of the additional Stitch Patterns are shown below and on the following pages.

SCALLOP STITCH PATTERN 161004

Direction of stitching is from left to right.

<table>
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<tr>
<th>No. 25 Stitch Setting</th>
<th>Narrow Right</th>
<th>No. 30 Stitch Setting</th>
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<td>No. 15 Stitch Setting</td>
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<td>No. 35 Stitch Setting</td>
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</tr>
<tr>
<td>No. 25 Stitch Setting</td>
<td>Wide Right</td>
<td>No. 45 Stitch Setting</td>
<td>Wide Right</td>
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</tbody>
</table>

Fig. 29. Scalloped Stitch Patterns made by changing right and stitch settings as indicated

SCALLOPED TUCKS

Scalloped tucks are quickly accomplished by folding material right side together, then stitching so that the outer curve of the scallop falls 1/4 inch from the fold. Trim 1/4 inch from stitching and with seam allowance at frequent intervals. Clip almost to stitching at points between scallops. Turn material to right side and stitching to form scalloped edge. Stitch tuck to desired depth with fine (stitch setting 1.5 to 2.0) straight stitching. Scalloped facings are accomplished in much the same manner.

MULTIPLE STITCH PATTERN 161005

No. 20 Stitch Setting

<table>
<thead>
<tr>
<th>Narrow Right</th>
<th>No. 25 Stitch Setting</th>
<th>Narrow Right</th>
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<td>No. 35 Stitch Setting</td>
</tr>
<tr>
<td>Medium Right</td>
<td>No. 35 Stitch Setting</td>
<td>Medium Right</td>
</tr>
<tr>
<td>No. 45 Stitch Setting</td>
<td>Wide Right</td>
<td></td>
</tr>
</tbody>
</table>

Fig. 30. Multiple Stitch patterns made by changing right and stitch settings as indicated
WALLS OF TROY STITCH PATTERN 161006

The solid and open portions of the design are equally balanced when blight is set at No. 30. Direction of stitching is from left to right.

(A) To lock the pattern, upon completion of the stitching, set attachment in straight stitching position and sew three or four very short stitches.

B) When sewing on soft, sheer, textured or loosely woven fabrics, use a backing of one or two thicknesses of crisp lawn, taffeta or organdy and cut away the backing when design is completed.

C) When a pattern is to be stitched close to the edge of the fabric, baste the fabric and backing together to prevent slip- ping. Remove the basting stitches when the work is completed. Regulate blight to produce the most pleasing result.

Fig. 34. Walls of Troy Stitch patterns made by changing light and stitch settings as indicated

Fig. 35. Decorative Bound Edge

Fig. 36. Tacking

TO LUBRICATE THE ZIGZAGGER

To insure smooth operation, the zigagger should be lubricated at the start of a project, particularly if it has not been in use for two or more months.

Apply a small amount of SINGER® Motor Lubricant and SINGER® Sewing Machine Oil to the points indicated by arrows in Figs. 40, 41 and 42. To reach the lubricating points inside the attachment, raise the cover as shown in Fig. 7 and lift out the stitch pattern.

Wipe off excess oil and lubricant to prevent soiling of the work. Replace stitch pattern and close cover.

Fig. 40. To Lubricate the Zigagger

Fig. 41. To Lubricate the Stitch Pattern

One drop of oil is sufficient for the track inside the stitch pattern shown in Fig. 42.
The SINGER Automatic Zigzagger is only one of many attachments available at your SINGER SEWING CENTER...attachments which will enable you to accomplish a great variety of work with a minimum of time and effort...attachments which can give your home sewing that smart professional look.

YOUR SINGER SEWING CENTER stands ready to help you with instructions and advice on Home Dressmaking and Home Decorations. You will also find a hundred and one other helpful sewing services and supplies. Our finishing services include Hemstitching, Custom Made Belts, Button and Buckle Covering, Picoting. Here, too, you will also find the widest selection of thread, zippers, buttons and other notions.

Drop in and get acquainted at your SINGER SEWING CENTER.