SINGER
15K
SEWING MACHINE 15K

The SINGER 15K is another in a long line of products resulting from the skill and ability of SINGER craftsmen.

* A Trade Mark of THE SINGER MANUFACTURING CO.
AS THE OWNER OF THIS
SINGER SEWING MACHINE:

You have a machine made with the same care and craftmanship that have been the hallmark of SINGER products for more than a century. We are acutely aware that SINGER Sewing Machines have become a tradition and are intensely proof of, and determined to continue, this heritage.

Your SINGER 15K30 is the product of the pride, determination and the unsurpassed technical skill of SINGER. This smooth-running machine, combined with your own skill, will bring you a new world of sewing enjoyment. Exclusive dresses for yourself, clothing for your family and a multitude of items for your home will be yours— all at a fraction of their ready-made cost.

TO OIL THE MACHINE
AND STAND

To ensure easy running the machine requires to be oiled so that all moving parts in contact are covered with a film of oil. These should never be allowed to become dry.

To oil the machine, the machine should be oiled daily, while with moderate use, an occasional oiling is sufficient. A drop of oil applied at the points indicated by arrows in Figs. 3 and 4 is sufficient. To oil the needle bar mechanism, remove the face plate (B, Fig. 3) by loosening the screws (C, Fig. 3) and slipping the plate up over it. It is most important that oil be applied to point "A" Fig. 3 and to point "B" Fig. 4 where the needle bar is at its lowest. When oiling, insert the oil can spout well into the oil hole. A drop of oil should also be applied to the shuttle race.

To oil the stand, apply a drop of oil to the centres upon which the hand wheel and treadle work, and to both ends of the pinion rod connecting the treadle with the hand wheel.

THE HAND ATTACHMENT

When the cover is removed from the machine, the hand attachment will be found to be out of working position, as shown in Fig. 1. To operate the machine, pull the small spring stud 2, Fig. 1, and turn the handle back until the lever 1, Fig. 1, enters the socket 3, Fig. 1. Also see that the hinged lever 1, Fig. 2, is turned back between the spokes of the wheel. The machine will then be ready for working, as shown in Fig. 2.

Before replacing the cover, the lever should be disengaged and the handle placed in the position shown in Fig. 1.

After oiling, run the machine rapidly for a few minutes so that the oil may reach the bearings. Neglect to oil the machine will shorten its life and cause you trouble and annoyance.

Always use SINGER oil. Inferior oil clogs the bearings, prevents efficient working, and causes rapid wear of the mechanism.
TO OPERATE THE HAND MACHINE

Place a piece of material under the presser foot E, Fig. 15, and lower the latter by means of the lifter C, Fig. 15. Now turn the handle over from you to work the machine, without its being threaded, until you are accustomed to guiding the material with the left hand.

The advantages of an electric machine are: higher speed and both hands being free, a greater capacity of work. A stop may be applied to your machine at any time.

TO OPERATE THE TREADLE MACHINE

Loosen the stop motion screw (see Fig. 5) place both feet upon the treadle and turn the hand wheel over towards you, at the same time allowing the feet to move freely and lightly with the motion of the treadle. Continue to do this until a regular and easy movement is acquired and you are able to work the treadle so that you can re-start the machine with the wheel turning towards you.

When familiar with the working movement, re-tighten stop motion screw and place a piece of material under the presser foot E, Fig. 15. Lower the latter by means of the lifter C, Fig. 15, and again work the machine, without its being threaded, until you are accustomed to guiding the material.

NEEDLES AND THREAD

For perfect stitching, thread should be selected according to fabric to be stitched and needle must be correct size for thread which must pass freely through eye of needle. See page 6.

TO SET THE NEEDLE

Select the correct needle according to the table on page 6. Be sure that needle is not blunt or bent. Raise the needle bar to its highest position and loosen thumb screw A, Fig. 6 in needle clamp B. Push needle with its flat side towards the right up into needle clamp as far as it will go, then tighten the thumb screw A.
TO WIND THE BOBBIN  See Fig. 9

Loosen the hand wheel (see Fig. 5) and place a reel of thread on the pin (1). Place an empty bobbin on the spindle (3) and turn the former until the slot in its right side engages the pin in the spindle shoulder. Draw the thread under and between the tension discs (2) and pass it, from the inside, through one of the holes in the left side of the bobbin and hold the end of thread. Now press down on the winder and the latch (4) will drop and retain the pulley (6) against the ledge of the hand wheel. Turn the latter over towards you until a few coils are wound and then break off the end of thread. Operate the machine until the bobbin is full, when the winder will stop automatically. Afterwards retighten the hand wheel for sewing.

TO REMOVE ROBBIN CASE AND BOBBIN

Turn the hand wheel towards you until the take-up lever (5, Fig. 7) is at its highest point. Draw open the slide in the bed of the machine and, with the thumb and forefinger of the left hand, open the latch (see Fig. 9) and withdraw the bobbin case. While the latch is held open, the bobbin is retained in its case. On releasing the latch and turning the case downward, the bobbin will drop out.

If bobbin does not wind evenly, loosen screw which holds tension bracket in position on bed of machine and move bracket to the left if bobbin winds high on the right; move bracket to the right if bobbin winds high on the left. When bracket is properly centred, thread will wind evenly across bobbin.

Retighten tension bracket screw.

If the pressure of the pulley (6) against the ledge of the hand wheel is insufficient for winding the bobbin, press down the winder until the latch (1) drops down and holds it, then loosen the screw (5). With the forefinger push back the upper end of the slotted plate (see Fig. 10) as far as it will go and, at the same time, with the thumb, press the winder against the ledge of the wheel. Then tighten screw (5) securely. Afterwards raise the latch to release the winder from contact with the hand wheel.

Bobbin can be wound while machine is sewing.
TO THREAD THE BOBBIN CASE

Fig. 11
Hold the bobbin between the thumb and forefinger of the right hand, with the thread leading from left to right, as shown in Fig. 11; with the left hand hold the bobbin case and place the bobbin into it.

Fig. 12
With the right hand draw the thread into the slot in the edge of the bobbin case, as shown in Fig. 12.

Fig. 13
Then pull the thread to the right, under the tension spring, and into its delivery eye, as shown in Fig. 13.

TO REPLACE THE BOBBIN CASE

After threading the bobbin case hold its latch between the thumb and forefinger of the left hand and, with its position finger opposite the notch at the top of the shuttle race (see Fig. 14), replace it on the centre stud of the shuttle. Then release the latch and press the bobbin case back until the latch catches the groove near the end of the stud. Allow the end of thread to hang free, and close the slide in the machine bed.

TO PREPARE FOR SEWING

Have the thread take-up lever at its highest position, then, with the left hand, hold the end of the needle thread, leaving it slack from the hand to the needle. Turn the hand wheel over toward you until the needle moves down and up again to its highest position, thus catching the bobbin thread. Draw up the needle thread and the bobbin thread will come up with it through the hole in the throat plate as shown in Fig. 11.

Lay both threads back under the presser foot diagonally across the feed, to the right or left, depending upon which side of the needle the material is to be located so that when the presser foot is lowered, the threads will be firmly held between the feed and the presser foot.

TO START SEWING

Be sure to have thread take-up lever 2, Fig. 7 in its highest position. Place material beneath the presser foot E, Fig. 15, turn the hand wheel to bring the point of the needle into the material, then lower the presser foot by means of presser bar lifter C and start to sew.

Some materials, such as soft finished sheers, velvets, perseys, tricots and other elastic and spongy textiles, require a slight amount of assistance in feeding during sewing operations.

Fig. 15.
TO TURN A CORNER

Stop the machine when the needle is still in the fabric. Raise the presser foot and turn the work as desired. Using the needle as a pivot, then lower the presser foot and resume sewing.

BASTING

Move the thumb screw, Fig. 16, upward as far as it will go so as to give the longest stitch. This stitch is found satisfactory for basting and is easily removed by slipping every sixth stitch and withdrawing the long continuous thread. Machine basting is slower and more even than that done by hand in addition to being much quicker.

TO SEW BIAS SEAMS

Use a short stitch and as light a tension as possible on the needle thread so that the thread is loose enough in the seam to allow the goods to stretch if necessary.

TO REMOVE THE WORK

Stop the machine with the thread take-up lever 2, Fig. 7 at its highest point. Raise the presser foot by means of presser bar lifter 3, Fig. 7; draw the fabric back and to the left and sever the threads on thread cutter D, Fig. 15. Place ends of threads under presser foot E, Fig. 15. When the machine is not in use, raise the presser foot by means of presser bar lifter to prevent injury to the presser foot and the feed F, Fig. 15.

TO REGULATE LENGTH OF STITCH

The length of stitch is altered by loosening the thumb screw (see Fig. 16) and moving it upward to lengthen or downward to shorten the stitch. Then tighten the screw.

TO REGULATE PRESSURE ON PRESSER FOOT

For ordinary sewing, the pressure of the presser foot on the material seldom requires changing. Heavy materials require more pressure than light weight materials. The pressure should be only heavy enough to prevent the material from rising with the needle and to enable the feed to move the work along evenly. To increase the pressure, turn the thumb screw G, Fig. 17 clockwise or downward. To lighten the pressure, turn the thumb screw G so that it screws upward.

THREAD TENSIONS

For perfect stitching, the tension on the needle and bobbin threads must be heavy enough to pull the threads to the centre of the thickness of the material and make a firm stitch, as shown in Fig. 18. If the needle thread lies straight along the top side of the material, the tension on the needle thread is too heavy or the tension on the bobbin thread is too light, as shown in Fig. 19. If the bobbin thread lies straight along the underside of the material, the tension on the needle thread is too light or the tension on the bobbin thread is too heavy, as shown in Fig. 20. Fine fabrics require a light tension, while heavy materials want more tension to obtain a perfect stitch.
TO REGULATE THREAD TENSIONS

The tension on the needle thread should be regulated only when the presser foot is down.

A correct stitch can usually be obtained by varying the tension on the needle thread (see Fig. 21).

Lower the presser foot and turn the thumb nut in the direction illustrated by the arrow to increase the tension or in the opposite direction to lessen it. All machines are correctly adjusted before leaving the factory, the under tension seldom requires to be altered, but if this becomes necessary tighten the screw in the spring on the outside of the bobbin case (see Fig. 11) to increase the tension, or loosen it slightly to lessen the tension.

SEWING SUGGESTIONS

The Belt for Treadle Machine should be only just tight enough not to slip. If too loose, shorten and rejoin.

Breaking of Needles Might be Caused by:

1. Improper size of needle for thread and material—see page 6.
2. Bent needle.
3. Pulling of material when stitching.
4. Needle striking an improperly fastened presser foot or attachment.
5. Crossing too thick seams with too small a needle.
6. Needle too long for the eye.
7. Roughened hole in throat plate.

THE BELT SHIFTER

This device simplifies throwing off and replacing the belt. To throw off the belt, move the belt shifter to the left (see Fig. 22), working the treadle at the same time. To replace the belt, work the treadle slowly with the hand wheel turning towards you, when a revolution or two of the wheel will bring the belt back into its place.

Breaking of Bobbin Thread Might be Caused by:

1. Improper threading of bobbin case—see pages 14 and 15.
2. Bobbin thread tension too tight—see page 21.

Skipping of Stitches Might be Caused by:

1. Needle not pushed up as far as it will go into needle clamp—see page 9.
2. Needle blunt or bent.
4. Improper arrangement of threads to start sewing—see page 16.

Free instruction for using the machine is gladly given at any

SINGER SEWING CENTRE
"The Best is the Cheapest"

**THE FOOT HEMMER**

The foot hemmer (see Fig. 23) is attached to the machine in place of the presser foot. Raise the needle to its highest position. Loosen the thumb screw which clamps the presser foot to the presser bar and remove the presser foot. Attach the foot hemmer to the bar, taking care to tighten the screw firmly so that the hemmer will not become loose when the machine is running. Turn the hand wheel slowly to make sure that the needle goes through the centre of the needle hole and that the lower thread is properly pulled up.

**HOW TO START THE HEM AT THE VERY EDGE**

How to start the hem at the very edge of the material is of great importance in learning to use the hemmer. If the hem is not started at the edge and the material is pulled bumpy, a perfect hem cannot be made.

There are several ways of starting the hem at the edge, but the most practical one is as follows:

1. Fold edge of material twice, about 1/8 inch each time, for a distance of about two inches. Crease folds.

2. Lay about three inches of needle and bobbin threads back under hemmer. Place creased edge of material under hemmer with end of hem directly under needle. Lower hemmer and tack end of hem with two machine stitches.

3. Raise hemmer. Pull threads and hem slightly from you with left hand, then, while holding threads, draw material toward you with right hand into scroll of hemmer, until tacked end is caught in hemmer, as shown in Fig. 24.

4. Lower the hemmer and begin to sew, slightly pulling threads back while sewing. Keep mouth of hemmer full to produce a smooth, even hem, as shown in Fig. 25.

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**Instructions for Using**

**THE ATTACHMENTS**
MAKING A HEMMED SEAM WITH THE FOOT HEMMER

See Figs. 26 and 27.

1. When making this seam, the garment must first be fitted and edge of material trimmed, allowing for about 1/8 inch seam. Insert the two edges of material, right sides together, in hemmer in same manner as a single hem, as shown in Fig. 26. If material is bulky, place edge of upper piece of material about 1/8 inch to left of edge of under piece.

2. The free edge of the hemmed seam may be stitched flat to the garment, if desired. To do this, open work out flat, wrong side up, then insert hem in scroll of hemmer, holding edge of hem in position while it is being stitched. If seam is stitched flat to garment, one row of stitching is visible on the right side.

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MAKING A FELLED SEAM WITH THE FOOT HEMMER

See Figs. 28 and 29.

1. Place right sides of material together, having edge of upper piece about 1/8 inch to left of edge of under piece. Stitch the two pieces together, using hemmer as a presser foot. Guide both pieces by the projecting toe of hemmer, as shown in Fig. 28.

2. Open work out flat, wrong side up, and hem free edge of seam, stitching it flat to garment as shown in Fig. 29.

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TO HEM AND SEW ON LACE IN ONE OPERATION

See Fig. 30.

1. Start hem in the regular way.
2. Hold hem in position with needle.
3. Raise presser bar and insert edge of lace in slot of hemmer and back under hemmer.
4. Lower presser bar and start sewing, catching edge of lace with needle.
5. Guide hem with the right hand and lace with the left hand, being careful not to stretch lace as it enters hemmer.

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ADJUSTABLE HEMMER

HEMMING

See Fig. 31.

Remove the presser foot and attach the adjustable hemmer in its place, as shown in Fig. 31. This hemmer will turn hems from 1/8 to 1/2 inch wide. The adjustment is made by loosening the thumb screw on the hemmer and moving the scale to the right or left until the hem turned is of the desired width. Place the cloth under the hemmer and draw the edge toward the left under the scale, as shown in Fig. 31. Draw the edge of the cloth back and forth until the hem is formed, stopping with the end under the needle. Lower the presser bar and start to sew, being careful to guide the cloth so that the hemmer is kept full.

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ADJUSTABLE HEMMER

WIDE HEMMING

See Fig. 32.

To make a hem more than $\frac{3}{8}$ inch wide, loosen the thumb screw in the hemmer and move the scale to the right as far as it will go, then swing it toward you as shown in Fig. 32, and tighten the thumb screw. Fold and crease down a hem of the desired width, pass the fold under the extension at the right of the hemmer, and the edge into the folder as shown in Fig. 32, and proceed to stitch the hem.

![Fig. 32. Showing how Adjustable Hemmer is Used for Making Hems Wider than $\frac{15}{16}$ Inch.]

THE BINDER BINDING

Pass the binding through the scroll of the binder and draw it under the needle. Place the edge of the material to be bound between the scroll of the binder and under the needle, lower the presser bar lifter and sew as usual. Bias binding should be cut $\frac{3}{8}$ of an inch wide.

To Bind with Press-Braid. Proceed as when using bias binding, but as dress braid and binding purchased already folded are narrower than bias binding, they should be inserted in the outer slot of the binder. The edges of dress braid are not turned under as in the case of bias binding.

![Fig. 31. Sample of Outside Curve.]

![Fig. 35. Sample of Inside Curve.]

To make French Folds. Proceed as directed for binding, but pass the cloth beneath the binder foot, so that the fold is stitched on to the face of the material instead of on the edge.

THE ADJUSTMENT AND OPERATION OF THE BINDER

The edge to be bound should be held well within the centre slot of the scroll, and with a little practice this is quite easy. If the material is allowed to slip away from the scroll when near the needle, the edge will not be caught in the binding.

Various materials and conditions require different adjustments of the Binder to bring the stitching close to the edge. A wider adjustment of the Binder is necessary when binding curves than when binding a straight edge.

To adjust the Binder, loosen its small screw and move the scroll to the right for a narrower adjustment or to the left for a wider adjustment, after which securely tighten the screw. To become perfectly familiar with the adjustment of the Binder, a little practice is necessary.

BINDING OUTSIDE CURVES

Practice is required to bind a curved edge properly. The edge to be bound must be allowed to pass freely through the scroll and should not be crowded in or against it. Guiding should be from the back of the binder and to the left, allowing unfinished edges to swing naturally into the scroll of the binder. Never pull the binding as it feeds through the Binder, as bias material is very easily stretched and would be too narrow when it reaches the needle. If this occurs the edges will not be turned.

When binding a curved edge, turn the material only as fast as the machine sews. It is not possible to hold the material in the entire length of the scroll when binding a small curve. Do not push the material in too fast, as the edge will then become puckered, and do not stretch the material or the curve will not be the proper shape when finished. If the stitching does not catch the edge of the binding the scroll should be adjusted a little to the left.

BINDING INSIDE CURVES

This curve is found on nearly all garments which are finished with a bound edge, but practice is necessary on various materials.

When binding an inside curve, straighten out the edge as it is being fed into the Binder. When doing this, take care not to stretch the edge of the material.

If the material is soft, like batiste or crepe de chine, add a row of machine stitching close to the edge of the curve before binding.
whenever stitching must be kept accurately on the extreme edge of a piece of material. The slots, numbered from 1 to 5 in Fig. 36, serve as guides for sewing together laces, insertions and embroideries, sewing in position hemmed or folded edges, piping or sewing flat braid to a garment.

ADJUSTING THE EDGE-STITCHER

After attaching the edge-stitcher to the machine, turn the hand wheel slowly by hand to see that the needle goes through the centre of the needle hole. The distance of the line of stitching from the end of the material in the slots can be regulated by pushing the lug A, Fig. 36 to the right or to the left. If it moves hard, put a drop of oil under the blue spring, then wipe it dry.

SEWING LACE TOGETHER WITH THE EDGE-STITCHER

It is difficult to sew two lace edges together even after basting, but the edge-stitcher makes it possible to stitch on the very edge. Place one edge in slot 4 and the other in slot 1, and adjust lug A, Fig. 36 until both edges are caught by the stitching. Hold the two pieces slightly overlapped to keep them against the ends of the slots. The thread tensions should be loose to avoid puckering of fine lace.

Lace and ribbon or other insertions can be set in by using the same slots (1 and 4, Fig. 36). The material may be folded over before placing it in the slot so that a double thickness is stitched and will not pull out. The surplus material is trimmed away close to the stitching as shown in Fig. 38.

Fig. 38. Setting in Lace Insertion.

APPLYING BIAS FOLDS WITH THE EDGE-STITCHER

Folded bias tape or military braid, used for neat and colourful trimming, may be sewn on by placing the garment under the edge-stitcher the same as under the presser foot, and placing the tape in slot 1 or 4, Fig. 36. To make a square corner, sew until the turning point is reached, then remove the tape from the attachment and form the corner by hand. Replace it in the slot and continue stitching.

Fig. 10. Applying Bias Folds with the Edge-Stitcher.
STITCHING A WIDE HEM
WITH THE EDGE-STITCHER

A wide hem on sheets, pillow slips, etc., may be stitched evenly with the edge-stitcher after the hem has been measured and the edge turned. Insert the edge in slot 5, Fig. 36 and adjust to stitch as close to the edge as desired, as shown in Fig. 41.

THE GATHERING FOOT

To Shirr with the Gathering Foot

The gathering foot is fastened to the machine in the same manner as the presser foot. Material placed under the gathering foot and stitched in the usual way will be slightly gathered. Any fabric that drapes well is especially suited for shirring with the gathering foot. Most shirring with the gathering foot is done with a long stitch and tight tension. To increase the fullness of the gathers, lengthen the stitch. To decrease the fullness, shorten the stitch.

With the gathering foot, it is possible to shirr in narrow rows, as shown in Fig. 41. The material may be guided as easily as when sewing with the presser foot. Fine materials, such as batiste, silk or net, may be very attractively shirred, as shown by the samples in Fig. 15. Where only a slight fullness is required, as at the top of a sleeve or around the neck, the gathering foot will be found very convenient.

MAKING A FRENCH SEAM

An even French seam may be made by inserting the two edges to be joined, wrong sides together, in slot 1 or 2 and stitching close to the edge; then folding both right sides together and inserting the back of the seam into slot 1 again and stitching with just enough margin to conceal the raw edges (See Fig. 12).

Fig. 12. A French Seam

TUCKING WITH THE EDGE-STITCHER

To Tuck with the Edge-stitcher

Dainty narrow tucking may be produced on the edge-stitcher by inserting creased folds in slot 1 and adjusting the edge-stitcher to the right or left for the desired width of tuck, up to 1/8 inch. Successive tucks may be easily creased by folding the material at the desired distance from the previous tuck, and then running the length of the fold over a straight edge such as the edge of the sewing machine cabinet. The secret of good tucking lies in a light tension, short stitch and fine thread and needle.

Fig. 13. Tucking with the Edge-stitcher

Fig. 14. Shirring

A very pleasing effect may be gained by using thread or embroidery silk of contrasting colour on the bobbin. Fig. 16 shows a white organdie collar and cuffs set with red and green smocking made with the gathering foot, using fine crochet cotton or tatting thread on the top and white cotton on the bobbin.

Fig. 15. Shirring

Fig. 16. Smocking
Principal Parts of the Ruffler

A. Foot - attaches ruffler to presser bar.
B. Fork Arm - straddles needle clamp.
C. Adjusting Screw - regulates fullness of gathers.
D. Projection - engages slots in adjusting lever.
E. Adjusting Lever - sets ruffler for gathering or for making a pleat once at every six stitches or once every twelve stitches, as desired, also for disengaging ruffler, when either pleating or gathering is not desired.
F. Adjusting Finger - regulates width or size of pleats.
G. Separator Guide - contains slots into which edge of material is placed to keep heading of ruffle even; also for separating material to be ruffled from material to which ruffle is to be attached.
H. Ruffling Blade - pushes material in pleats up to the needle.
I. Separator Blade - prevents teeth of ruffling blade from coming into contact with feed of machine or material to which ruffle or pleating is to be applied.

TO ADJUST RUFFLER FOR GATHERING
1. Swing adjusting finger F away from needle.
2. Raise adjusting lever E and move it until projection D can be entered in slot marked "F."

TO ATTACH THE RUFFLER TO THE MACHINE
1. Raise needle to its highest point.
2. Loosen presser foot thumbscrew, and attach ruffler to presser bar in place of presser foot, at the same time placing fork arm B astride needle clamp.
3. See that needle enters center of needle hole in ruffler.

Fig. 18 - Gathering with the Ruffler

Fig. 19 - Correct Position for Material to be Ruffled

3. Insert material to be ruffled between two blue blades and under separator guide (Line 2, Fig. 19).
4. Draw material slightly back of needle, lower presser bar and start to sew.
5. For fine gathering, turn adjusting screw G upward to shorten-stroke. Set the machine for a shorter stitch.
6. For full gathering, turn adjusting screw G downward to lengthen stroke. Set the machine for a longer stitch.

Fig. 20 - Making a Ruffle and Attaching it in One Operation

TO MAKE A RUFFLE AND SEW IT TO A GARMENT IN ONE OPERATION
1. Insert material to be ruffled between two blue blades and under separator guide (Line 2, Fig. 51).
2. Place material to which ruffle is to be attached under separator blade and under separator guide (Line 1, Fig. 51).
3. Proceed the same as for plain gathering.

Fig. 21 - Correct Positions for Materials

2. Place material to which ruffle is to be attached under separator guide (Line 1, Fig. 53).
3. Place facing material over upper blue blade (Line 1, Fig. 53).

1. If facing is to be on right side of garment, place wrong sides of garment and ruffle together.

Fig. 22 - Making a Ruffle and Attaching it with a Facing in One Operation

Fig. 51 - Correct Positions for Materials.

Fig. 23 - Making a Ruffle and Attaching it with a Facing in One Operation
5. If facing is to be on wrong side, place right sides of garment and ruffle together.

**TO PIPE A RUFFLE**

1. Insert material to be ruffled between two blue blades from the right (Line 3, Fig. 55). This material must not exceed 1/16 inches in width.

2. The piping material is usually cut on the bias and it should be about 1/4 inch wide when folded in center. Place piping material in ruffler, following Line 5, Fig. 55, with folded edge of piping to right.

3. Fold edge of material to which piping and ruffling are to be attached, and insert it in ruffler, from the left following Line 6, Fig. 55.

**TO ADJUST RUFLER FOR PLEATING**

1. Raise adjusting lever E and move it until projection D can be entered in slot marked “6.” The ruffler will then pleat once every six stitches. To pleat once every twelve stitches, have projection D indicated by star on adjusting lever E. The ruffler will then stop pleating and plain stitching will be made.

2. When the desired space is made, set projection D in either of slots “6” or “12.”

3. Insert the material to be pleated between the two blue blades and under the separator guide (Line 2, Fig. 59).

**TO OIL THE RUFLER**

Occasionally apply a drop of oil to the working parts of the ruffler at the places indicated by the unlettered arrows in Fig. 58.
While embroidery and darning can be done on the machine when threaded for regular sewing, the use of feed cover plate No. 15349 is recommended, as movable contact with the feed in some cases might interfere with the handling of the work.

Do not change the adjustment of the feed dog in any way, as it is essential that its position should remain as originally fixed.

Remove the presser foot and let down the presser bar lifter to restore the tension on the needle thread, which is released and inoperative when the lifter is raised.

To attach the feed cover plate, draw to the left the slide that covers the bobbin case and insert the downwardly projecting hook on the cover plate under the edge of the throat plate and push it to the right. After bringing the hole at the right of the cover plate in line with the hole in the throat plate, press the cover into position and close the slide.

Feeding cover plate are not included in the regular set of attachments but they are on sale at all SINGER Shops.

Darning by sewing machine is infinitely better, stronger, and more quickly done than by hand.

"Darning the SINGER Way
A Pleasure"

TO ALL WHOM IT MAY CONCERN:

The improper placing or renewal of the Trade Mark "SINGER" or any other of the Trade Marks of The Singer Manufacturing Company (all of which are duly Registered Trade Marks) on any machine that has been repaired, rebuilt, reconditioned, or altered in any way whatsoever outside a SINGER Factory or an authorised SINGER agency is forbidden.

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