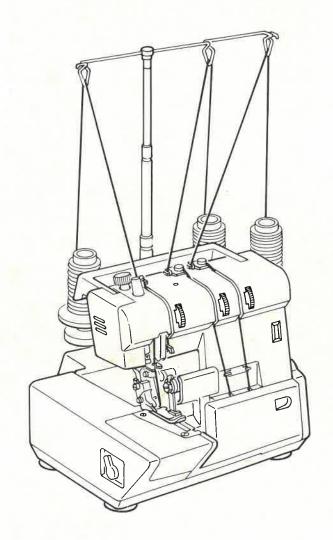
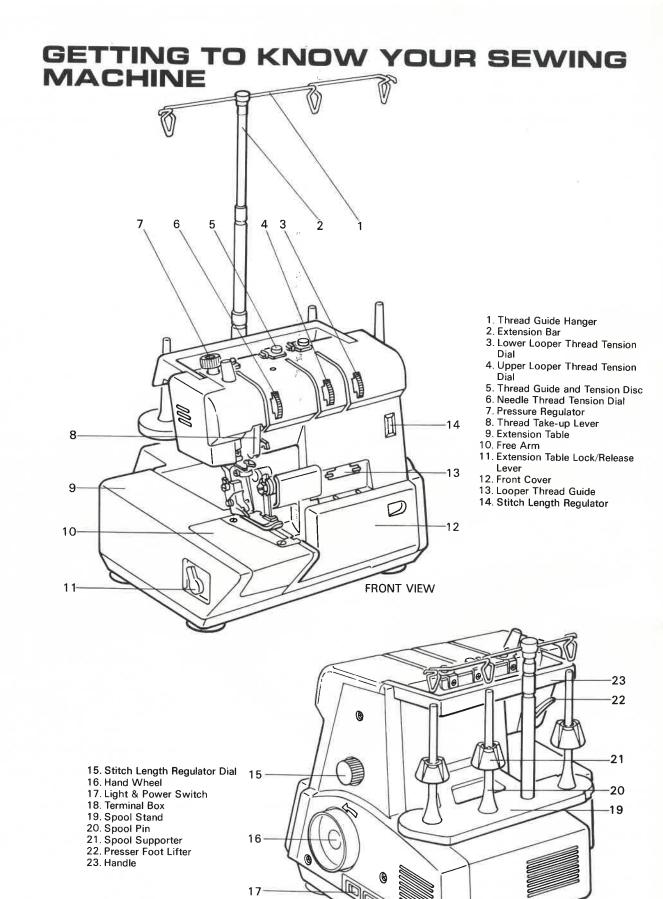
Simplicity® OWNER'S MANUAL

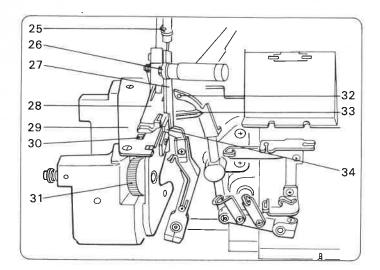


Easy Lock 803

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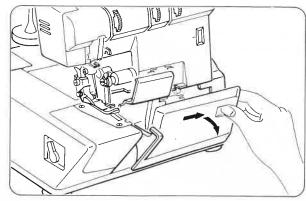


INSIDE OF FRONT COVER AND FREE ARM COVER

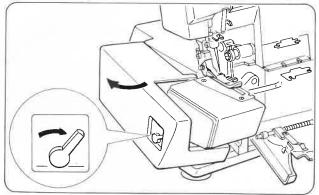
- 25. Needle Bar Thread Guide
- 26. Upper Knife Holder 27. Upper Knife
- 28. Presser Foot
- 29. Throat Plate
- 30. Feed Dog
- 31. Seam Width Knob 32. Upper Looper
- 33. Lower Looper
- 34. Lower Knife

ACCESS TO THREAD GUIDES AND FREE ARM

- 1. Place thumb in hollow of front cover and slide it to the right as far as possible; pull cover down toward you.
- 2. To close, lift cover up and it will snap into place.
- 3. Be sure that the cover is properly closed before starting to sew.

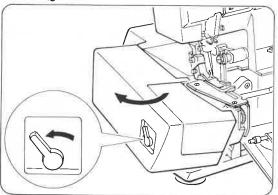


Opening the Extension Table



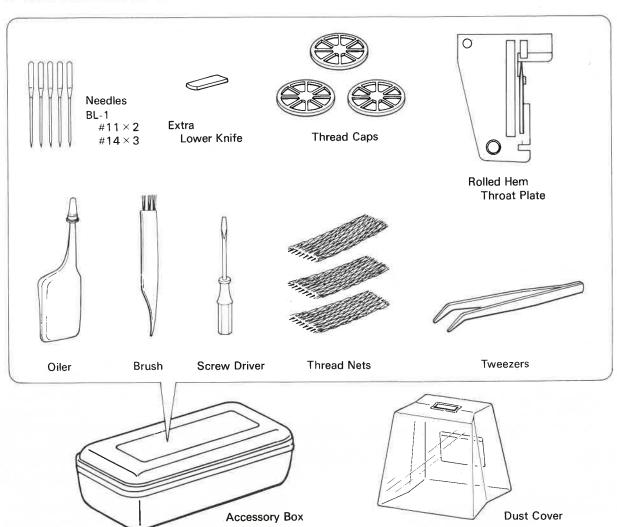
- 1. Turn lever located on left side of Extension Table toward front of machine.
- 2. Pull Extension Table out to open.
- 3. To close push shut and turn lever in opposite direction. This locks the Extension Table to Free Arm Cover.

Removing the Free Arm Cover



Swing Extension Table out with lever in locked position and Free Arm Cover will stay attached to the Extension Table.

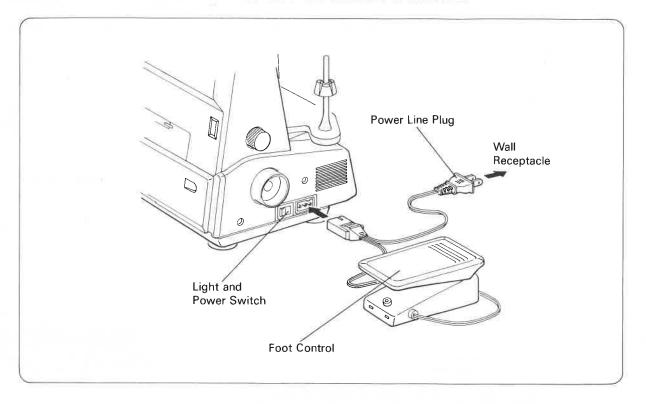
ACCESSORIES



SPECIFICATIONS

Stitch length	1-5 mm		
Seam width	3.5-5 mm		
Needle bar stroke	25 mm		
Presser foot	Hinged		
Presser foot lift	5 mm		
Needle	BL-1, #11, #14		
Number of threads	3		
Dimensions	Width: 11 3/8" × Depth: 10 1/32" × Height: 12 13/16"		
Net weight	18 pounds 8 ounces		
Sewing Speed	1200 s.p.m. maximum		

ELECTRICAL CONNECTION



Connect the electrical cord to the machine by inserting the three-hole plug into the terminal box located on the right side of the machine. Connect the cord plug into an electrical outlet.

The light and power switch is located alongside the terminal box. To turn power on, push on left side of switch. Turning on the power lights up the stitching area. The machine will not operate unless the switch is on. Place Foot Control on floor where it is easy to reach with your foot. To make machine go faster, press down on Foot Control; to slow down let up slightly.

CAUTION

- Disconnect the electrical cord from the wall outlet when machine is not in use or when it is being cleaned.
- 2. Turn the power switch to the "OFF" position before changing needles or throat plates, and before connecting the cord. This will help prevent accidents.

NEEDLE, THREAD AND FABRIC CHART

The chart shows size and type of thread, and needle size for various weights and types of fabrics. Size means the fineness of both needle and thread.

Use BL-1 type needle for this machine.

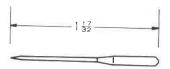
F	ABRICS	THREADS	NEEDLE SIZES	
or: tal	GHTWEIGHT: gandy, voile, ffeta, lawn, epe	Cotton.#100 Silk #100 Spun #80-100 Tetron #90	#11	
gir sed vel	EDIUM WEIGHT: ngham, satin, ersucker, linen, lveteen, gabardine, padcloth	Cotton #60-80 Silk #50 Spun #60-90 Tetron #60-80	#11, #14	
de	AVY WEIGHT: nim, tweed, rduroy, pile fabrics	Cotton #40-60 Silk #40-50 Spun #60-90 Tetron #50-60	#14	
	tricot	Spun #60-80 Tetron #60-80	#11	
KNIT	jersey	Spun #60-80 Tetron #60	#11, #14	
	wool	Spun #60-80 Tetron #50-60 Wooley nylon Wooley tetron	#14	

INSERTING THE NEEDLE

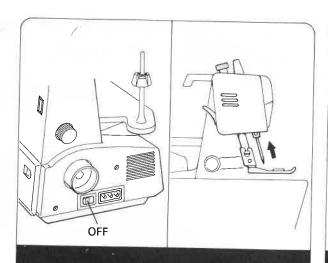
Select the proper type and size needle for fabric used. (See page 6 "NEEDLE, THREAD AND FABRIC CHART")

CAUTION:

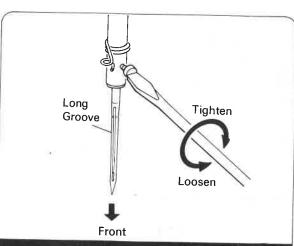
Use "BL-1" needles for this machine. Household type needles can not be used, the needle may break from the high speed of sewing.



Correct needle length is $1-17/32^{\prime\prime}$. The needle size is located on the shank of the needle.



- 1. Turn electrical power off.
- 2. Turn hand wheel toward you until the needle comes to its highest point.



- Use the screw driver provided in the accessory box to loosen the needle clamp screw, and remove the needle.
- 4. Insert the needle as far as it will go with the long groove facing front.
- 5. Retighten the screw.

THREADING THE MACHINE

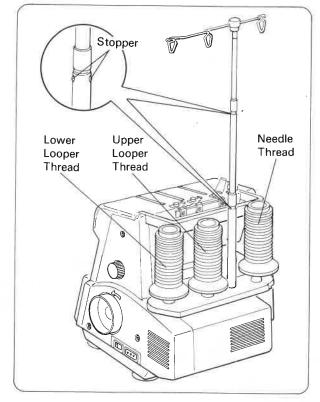
The machine comes threaded from the factory and must be rethreaded for use.

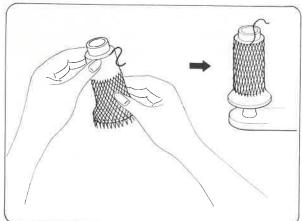
When rethreading, be sure to follow the directions given below. The machine will not sew properly if threaded incorrectly. An illustration for correct threading is given inside the front cover of the machine. The thread guides are identified with color markings corresponding to the thread to which they belong.

Thread the machine in the following sequence: Upper Looper (threading points marked in green), Lower Looper (threading points marked in blue), needle (threading points marked in orange).

extension bar

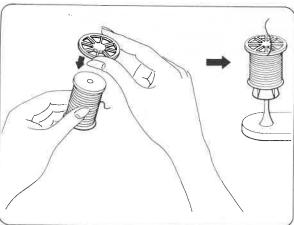
- 1. Pull the Extension Bar up as far as it will go.
- Rotate the Thread Guide Hanger so that the Thread Guides are right above the spool pins.
- 3. Place the spools or thread cones on spool pins.





Cover the thread cones with the thread nets provided in the accessory box.

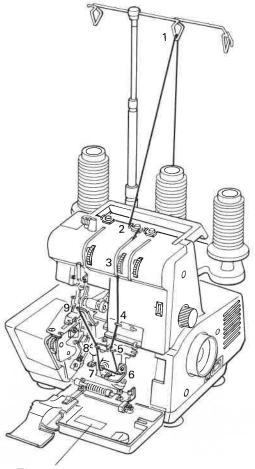
Bring thread end to the top of the cone.



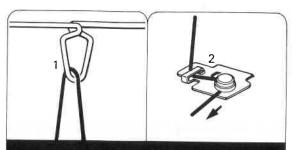
Thread caps are also provided with the accessories. They are used when sewing with regular spools. Insert the stem of cap into the spool hole.

threading the upper looper

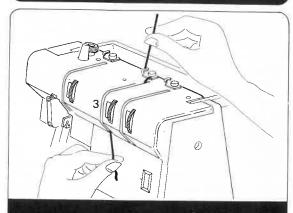
Open the front cover and thread upper looper thread as illustrated below. Follow thread guides with green color markings on machine.



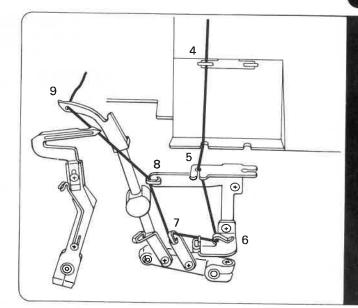
Threading chart



- Pass thread through top guide from back to front.
- 2. Bring thread down and pass through thread guide and under tension disc.



3. Bring thread straight down through the slot so that it passes between the tension discs.

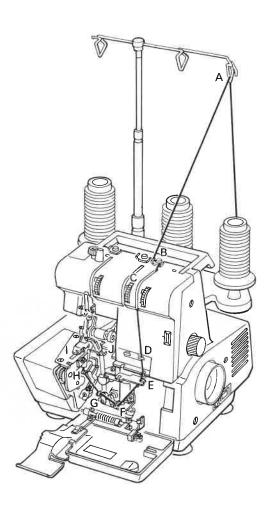


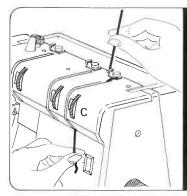
- 4. Hook thread through guide.
- 5. Pass thread through the opening of the guide.
- Hook into guide back to front and pull thread toward left.
- 7. Hook thread into guide from the bottom side and pull thread up.
- 8. Hook thread into guide from right side opening.
- 9. Use the tweezer provided in the Accessory Box to pass thread through the upper looper hole front to back. Pull at least 3 inches of thread through the upper looper.

threading the lower looper

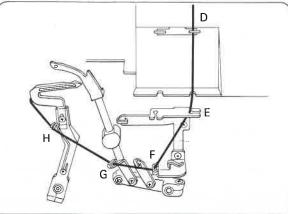
Thread lower looper thread as illustrated below A to J (Thread guides with blue color marking on machine).

- A. Pass thread through guide from back to front.
- B. Bring thread down and pass through thread guide and under tension disc.

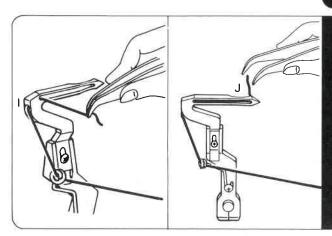




C. Bring thread straight down along the slot so that the thread passes between the tension discs.



- D. Hook thread into guide.
- E. Bring thread down passing it through the right side opening of guide.
- F. Hook thread into guide from opening on backside and pull thread toward left.
- G. Hook thread into guide from opening on backside.
- H. Pass thread through hole right to left.

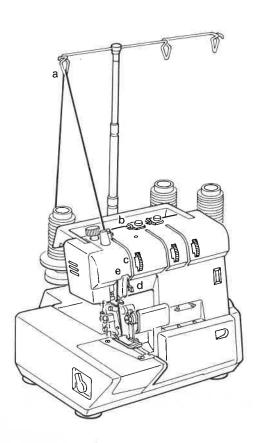


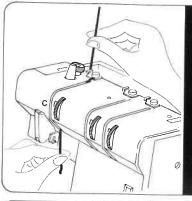
- I. Turn Hand Wheel toward you until the lower looper is in extreme left side position. Pass thread through hole using the tweezer.
- J. Turn Hand Wheel until the lower looper is in extreme right position. Use the tweezer to pass thread through hole front to back. Pull at least 3 inches of thread through lower looper.

threading the needle

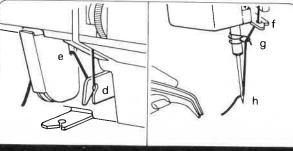
Thread needle thread as illustrated below a to h (Thread guides with orange color marking on machine).

- a. Pass thread through guide from back to front.
- b. Bring thread down and pass through thread guide and under Tension Disc.





c. Bring thread straight down along the slot so that the thread passes between the Tension Discs.

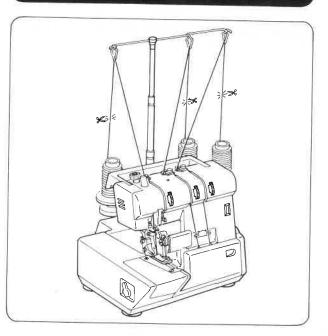


- d. Hook thread into guide from right to left and pull thread up.
- e. Hook into guide by sliding thread across top and down into hole.
- f. Hook thread on guide from the opening on right side of guide.
- g. Pass thread through guide.
- h. Use the tweezer to pass thread through the needle eye front to back.

easy thread changing

Instructions for changing threads are given below.

- 1. Cut the thread near the spools.
- Exchange the spool with a new one and tie end to remaining thread making knot as small as possible.
- 3. Turn Thread Tension Dials to the smallest number.
- 4. Press Foot Control and run machine until upper and lower thread knot comes through looper hole.
- Stop needle thread knot before passing through eye of needle. Cut thread and pass through needle eye manually.



BEFORE STARTING TO SEW

When the machine is plugged in properly and threaded correctly it is ready for sewing. To insure good stitches, make several sewing tests using the same fabric and thread on which you will sew. Make the proper adjustments while test sewing.

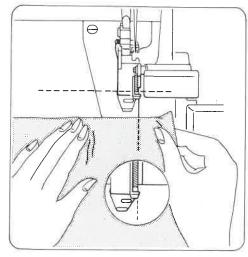
starting to sew

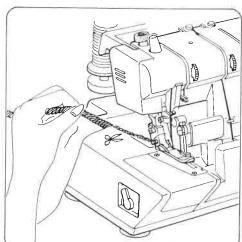
- Pull needle thread, upper and lower looper threads under the presser foot and toward the back.
- 2. Turn hand wheel toward you 2 or 3 times and check the thread chain.
- 3. Raise the Presser Foot Lifter.
- Place cutting line of fabric in line with right side edge of the Lower Knife and bring it under the presser foot until it touches the Upper Knife.
- 5. Lower the Presser Foot Lifter.
- Hold end of thread with your left hand and pull gently when starting to sew.
- 7. When you have started sewing, place hand lightly on fabric.

 Start machine slowly and gradually increase the sewing speed.

end of seam

- 1. When the needle reaches the end of the seam, chain off by running the machine until the thread chain is 2-3 inches long.
- Stop the machine and cut the thread chain. Tie small knots in thread ends and treat with dot of seam sealant. Let dry and trim close to knot.
- For neater finish, pull thread ends back through seam using hook or yarn needle.



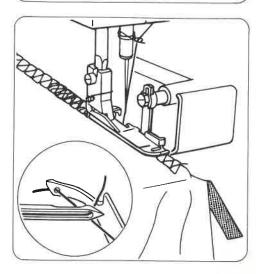


when thread breaks

If the thread breaks while sewing, remove fabric from machine and rethread as indicated below.

- Upper looper thread; turn hand wheel toward you until the upper looper is in the lowest position. Pass thread through the looper hole.
- Lower looper thread; cut the needle thread near needle hole and rethread the lower looper thread through its looper hole.
- Needle thread; rethread as indicated on Page 11.

To begin sewing, place material 1-2 inches behind point where thread broke.



OVERLOCK SEWING

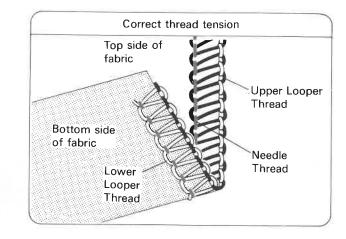
This machine will sew overlock stitches and simultaneously trim the fabric. The machine is delivered from the factory preset. You may wish to make some adjustments to better suit individual fabrics.

REGULATING THE THREAD TENSION

Quality stitches depend on proper balance between the three thread tensions. The tension may need adjusting depending on the type of fabric, heaviness of fabric and size of thread used.

The table below is a guide for adjusting the thread tension.

Note: Be sure that the thread is passing between the tension discs.

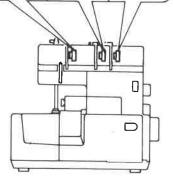


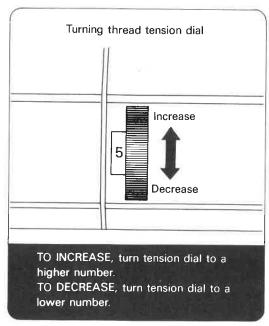
Fabric	Needle Thread	Upper Looper Thread	Lower Looper Thread	
Light Weight	2.5-4.5	2.5-4.5	1.5-3.5	
Medium Weight	3-5	2.5-4.5	1.5-3.5	
Heavy Weight	3.5-6	3.5-5.5	1.5-3.5	

This table is a guide for thread tensions when sewing with #80 to #90

polyester spun threads.

NOTE:





The charts below are illustrations of stitches needing adjustment in the thread tension.

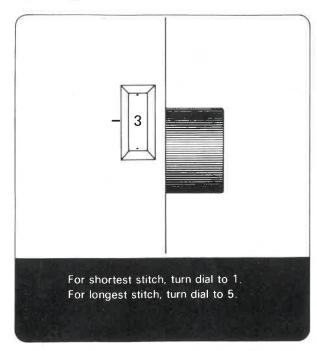
Needle	thread is too	oloose		per thread code of fabric	rossed on	Lower lot top side	oper thread croof fabric	rossed on
Needle Thread	Upper Looper Thread	Lower Looper Thread	Needle Thread	Upper Looper Thread	Lower Looper Thread	Needle Thread	Upper Looper Thread	Lower Looper Thread
Increase	_	-	_	Increase	-	_	_	Increase
							Decrease	

SETTING STITCH LENGTH

The stitch length can be adjusted between 1 and 5 mm.

As a rule, light weight fabrics take a shorter stitches. Heavy weight fabrics need longer stitches.

Most normal sewing is done with stitch length dial set at 3. This produces a medium length stitch which makes a strong seam and is suitable for most fabrics.

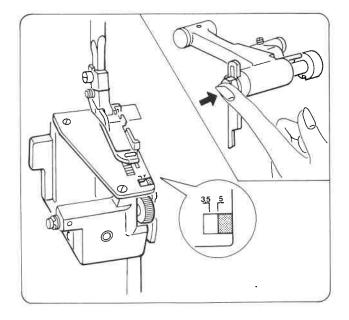


SETTING SEAM WIDTH

This overedge seam width can be adjusted to sew a 3.5 mm (about 1/8") to 5 mm (about 1/6") stitch. The machine is set at 3.5 mm which is the width used most often for overlock sewing. For heavy weight fabrics, set control knob to wider stitch.

- 1. Turn power switch off.
- 2. Open front cover and Free Arm Cover.
- Push the Upper Knife Holder to the right and turn the Seam Width Knob downward to select wider stitch width. For smaller width turn knob in opposite direction.

When adjusting the width, use graduations on throat plate as guide and line up with left edge of lower knife holder.



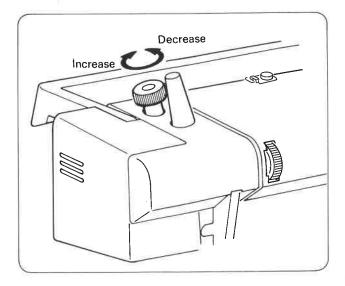
ADJUSTING THE PRESSURE ON FABRIC

The pressure on the foot can be adjusted for different weight fabrics. The fabric should move along smoothly and evenly without slipping. Stitches should be uniform in size.

The pressure on this machine is set for sewing medium weight fabrics.

For sewing light weight fabrics, decrease the pressure (turn screw to left). For heavy weight fabrics, increase the pressure

For heavy weight fabrics, increase the pressure (turn screw to right).



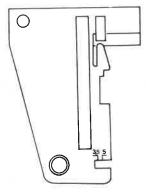
NARROW AND ROLLED HEMMING

The machine trims fabric, folds back the edge and sews a narrow hem (overedge). The width of the narrow overedge is 1.5 mm (about 1/16") and is used for overedging light and medium weight fabrics.

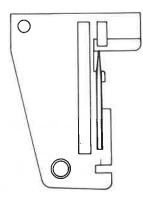
Two variations of the rolled overedge hem can be sewn with this machine by changing the thread tension. Both methods are used with light and medium weight fabrics. Method B (page 18) gives a softer finish by pulling the interlocking threads to the wrong side.

changing the throat plate

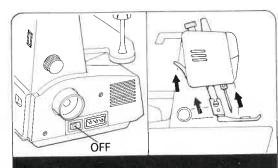
The machine comes with a standard overedge needle throat plate set to the machine. Change the throat plate when sewing rolled overedges.



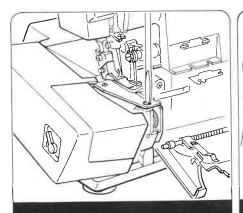
Standard Overedge Throat Plate



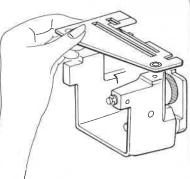
Rolled Hem Throat Plate



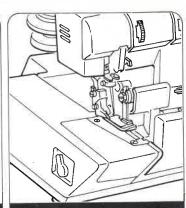
- 1. Turn power switch off.
- 2. Turn hand wheel toward you until needle is at its highest point.
- 3. Lift presser foot bar.



- 4. Open Extension Table and Free Arm Cover. (See page 3)
- 5. Loosen the front side screw.



 Lift the Throat Plate off and replace with Rolled Hemming Plate. (Be sure that thread is not caught under plate.)



7. Retighten the screw and replace Free Arm Cover.

setting controls

Set the controls as follows.

1 Fabric, Thread & Needle

Refer to Page 6 FABRIC, THREAD & NEEDLE, for selecting suitable thread and needle sizes for sewing on light and medium weight fabrics.

2. Stitch Length Regulator

Set stitch length between 1 and 2 mm.

3. Seam Width Knob

The seam width for sewing rolled overedges is normally 1.5 mm (about 1/16"). Turn seam width knob and adjust so that the left side of Lower Knife Holder is aligned with the mark of the Rolled Hem Throat Plate. (See page 15.)

sewing

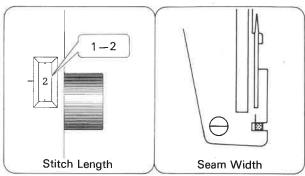
Pull the excess threads gently toward the back and begin sewing.

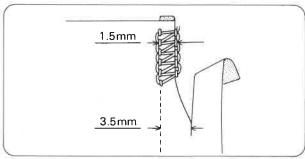
Pull fabric lightly in the direction it is being fed. Although the stitch width is set at 1.5 mm, you will actually need 3.5 mm (about 1/8") to provide enough fabric for the fold back.

thread tension -Method A

Use the chart to the right as a guide in setting tension.

The illustrations below are examples of stitches which need adjusting.

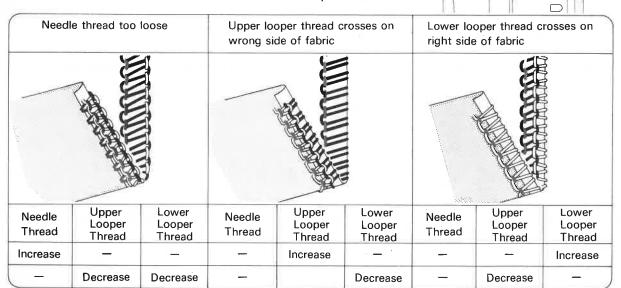




Fabric	Needle Thread	Upper Looper Thread	Lower Looper Thread	
Light and Medium	2.5 - 5	2.5-5	1.5 - 3.5	

NOTE:

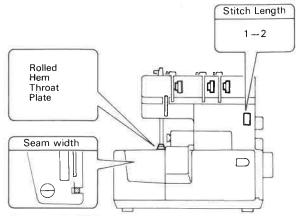
This table is a guide for thread tensions when sewing with #80 to #90 polyester spun threads.



ROLLED OVEREDGE

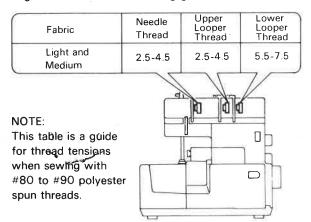
The upper looper thread sews through to the wrong side of fabric in Method B rolled overedge hem creating a softer finish.

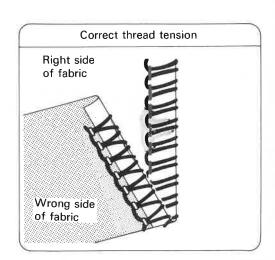
- 1. Change the Standard Overedge Throat Plate to the Rolled Hem Throat Plate.
- Settings and sewing of Method B rolled overedge hem are the same as the Method A rolled overedge except for thread tension. (See below)

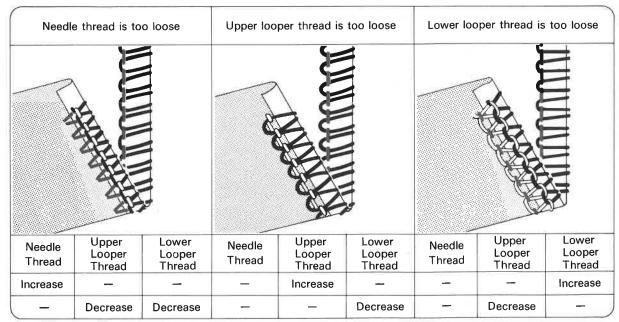


thread tension-Method B

Regulate the tension dials using guide below.

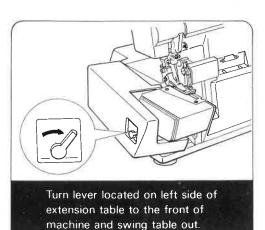


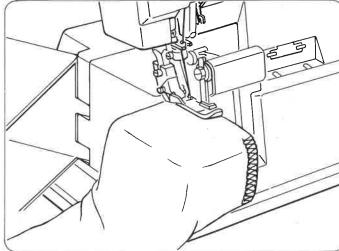




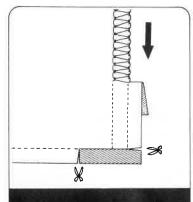
FREE ARM SEWING

This machine will convert to free arm sewing by simply opening the Extension Table. It is used for sewing sleeves, trousers or similar places that are difficult to sew on a flat bed machine.

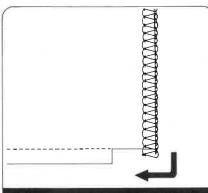




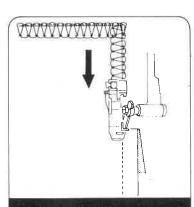
TURNING CORNERS



 Cut the corner about 2 to 3 inches along the cutting line.



- 2. Sew a few extra stitches past end of fabric and stop machine.
- 3. Raise needle and presser foot.
- Pull fabric slightly toward the back and pull out tangled thread from Throat Plate.



- Turn fabric and position the fabric by lining up the cut line and knife. Lower the Presser Foot.
- 6. Resume sewing.

outside curves

The machine can continue sewing when rounding a curve. There is no need to stop the machine and pivot. Push excess fabric toward the presser foot giving the machine more fabric and continue sewing as if sewing a straight seam.

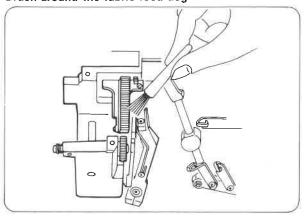
inside angle and slits

- 1. Cut fabric edge to desired finished size.
- 2. Stitch aligning the fabric edge with the edge of the Throat Plate.
- 3. As you approach the corner, slow down and allow the knife to make one more small notch into the corner.
- 4. Straighten the fabric out in front of the knife and stitch completing the edge.

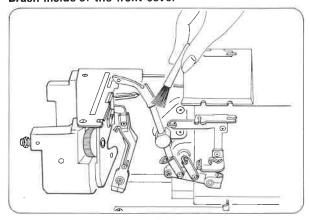
CLEANING AND MAINTENANCE cleaning

Fabric, thread scraps and dust may accumulate around moving parts and effect the functioning of machine. Unplug cord and clean machine with the brush provided in the accessory box.

Brush around the fabric feed dog

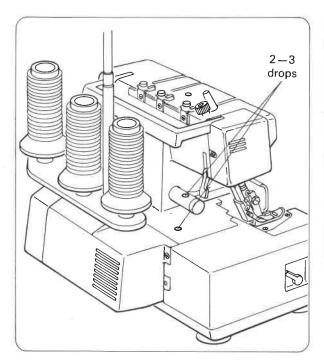


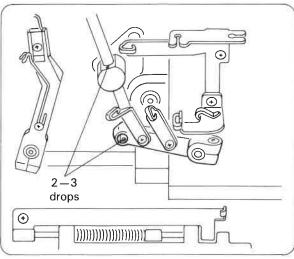
Brush inside of the front cover



oiling

Critical parts used in this machine are made of special material that does not require oiling. Only the parts indicated with arrows shown below need oiling. Depending on use these should be oiled once or twice a month.

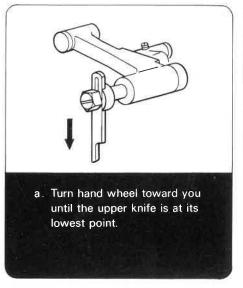


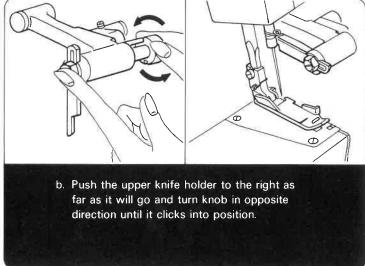


changing the lower knife

Exchange the Lower Knife as shown below when it becomes dull. An extra knife is provided in the Accessory Box.

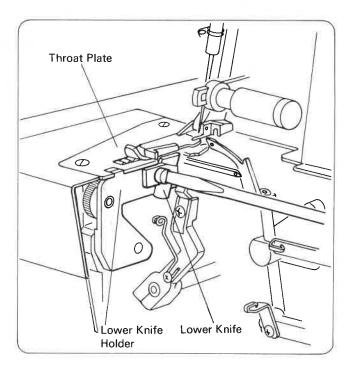
- 1. Unplug the machine.
- 2. Open the front cover.
- 3. Raise the upper knife as illustrated below.





- Loosen the Lower Knife Screw and take out the knife.
- 5. Install new knife by inserting it into the groove of the knife holder. Be sure that the tip of the lower knife is lined up with the surface of Throat Plate, and tighten screw.
- Return the Upper Knife to cutting position by pushing knife holder to right and turning knife toward you until it clicks into position. Close the front cover.

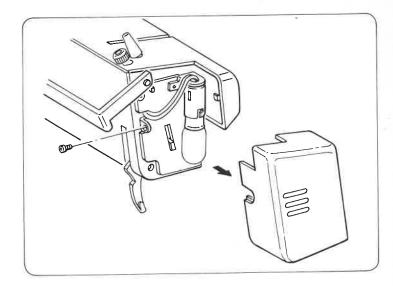
The upper knife is made of special hard material and should not require replacement under normal use. If it should chip or need replacement, call for your dealer.



changing the sewing light

If the sewing light does not light when power switch is turned on, replace the bulb.

- Unplug sewing machine from the wall receptacle.
- Remove the Face Plate by loosening the screw.
- 3. Remove the bulb.
- 4. Replace with new bulb of same size wattage and size.
- 5. Replace the face plate.



BEFORE YOU CALL FOR SERVICE

Your new Sewing Machine was carefully inspected and tested at the factory and was in perfect working order when shipped.

Under normal conditions, if you carefully follow instructions for threading, operating and maintenance, your machine will give you years of trouble-free service.

Occasional difficulties are usually caused by a condition that can be easily remedied with a minor adjustment. Some possible problems, their causes and corrections are given here.

CAUSE	CORRECTION	REFERENCE PAGE
 Needle inserted incorrectly Thread tensions are too tight Bent or blunt needle Machine not properly threaded Threads are caught in incorrect guide 	Reset needle Loosen thread tensions Insert new needle Rethread machine Rethread machine	7 13, 14 7 8-11 8-11
	 Needle inserted incorrectly Thread tensions are too tight Bent or blunt needle Machine not properly threaded 	 Needle inserted incorrectly Thread tensions are too tight Bent or blunt needle Machine not properly threaded Reset needle Loosen thread tensions Insert new needle Rethread machine

PROBLEM	CAUSE	CORRECTION	REFERENC PAGE
	Bent or blunt needle	Insert new needle	7
MACHINE SKIPS	Needle inserted incorrectly	Reset needle	7
STITCHES	Pressure on foot insufficient	Increase pressure	15
	• Incorrect needle size or type	Insert correct needle	6, 7
	Machine incorrectly threaded	Rethread machine	8-11
	• Tensions set too high	Loosen thread tensions	13, 14
	● Pulling fabric while sewing	Do not pull fabric	12
NEEDLE BREAKS	 Incorrect size needle or thread for fabric being sewn 	Choose correct needle and thread	6
	Needle inserted incorrectly	Reset needle	7
MACHINE DOES NOT FEED PROPERLY	Pressure on presser foot insufficient	Increase pressure	15
	Lower knife is dull	Change lower knife	21
EADDIO DI IOVERO	Stitch length not suitable for fabric	Readjust stitch length	14
FABRIC PUCKERS	● Thread tensions are too tight	Loosen thread tensions	13, 14 17, 18
	● Seam width not suitable for fabric	Readjust seam width	15
OOSE STITCHES OR OOPS FORMED	● Tensions not adjusted properly	Check thread tensions	14, 17 18
MACHINE RUNS HEAVILY	● Dirt or lint in stitching mechanism	Clean the machine	20
MACHINE WILL NOT	Cord not plugged into electrical outlet	Check plug	5
/L * *	● Light and power switch not on	Turn on the switch	5