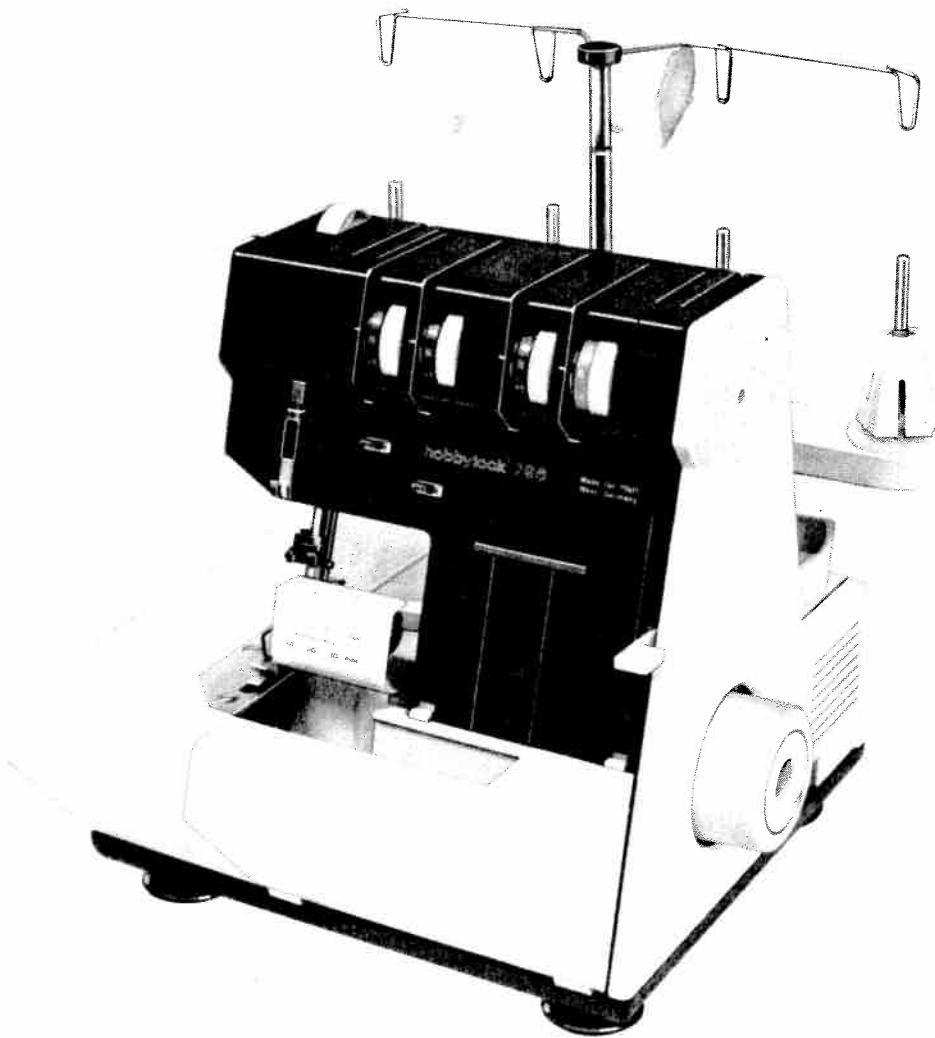


hobbylock 794 · 796

Instruction manual

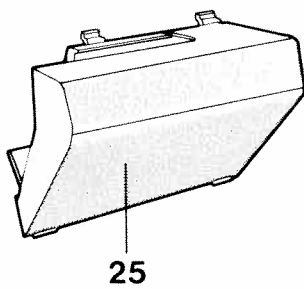
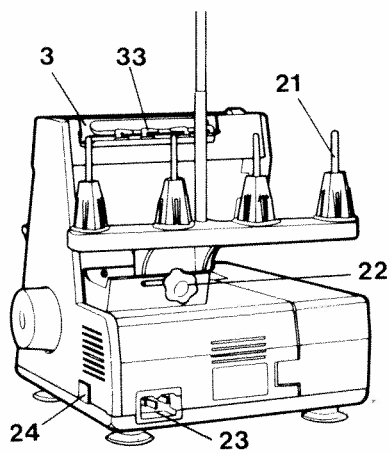
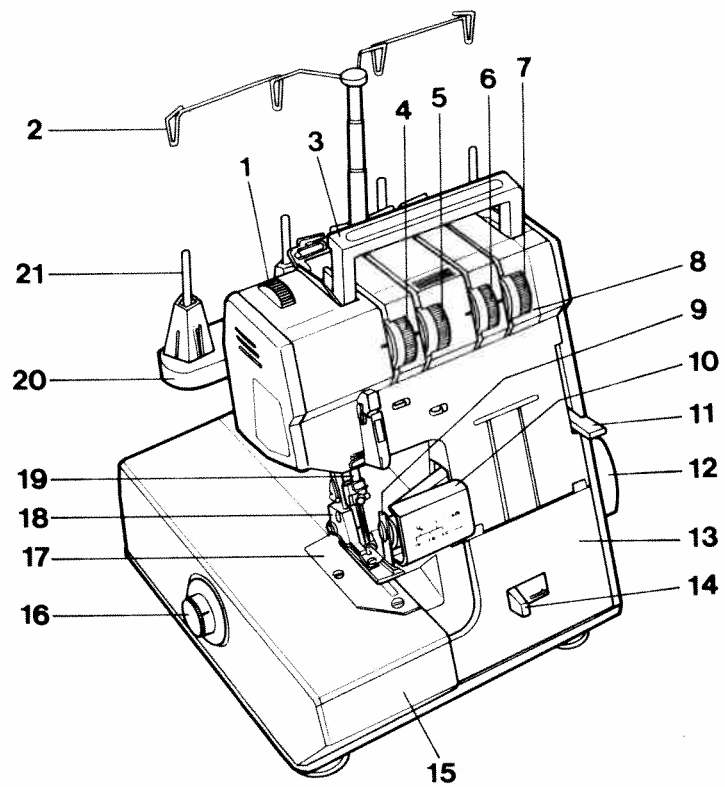


Notes on safety

- A) Due to the up and down movement of the needle, the user must take sufficient care to avoid injury and observe the sewing area continuously while sewing.
- B) When leaving the machine, changing parts or accessories, the machine must be disconnected from the power source.**
- C) The maximum approved wattage of the light bulb is 15 watts.
- D) The drive belt must never be adjusted by anyone but an authorized Pfaff agent.

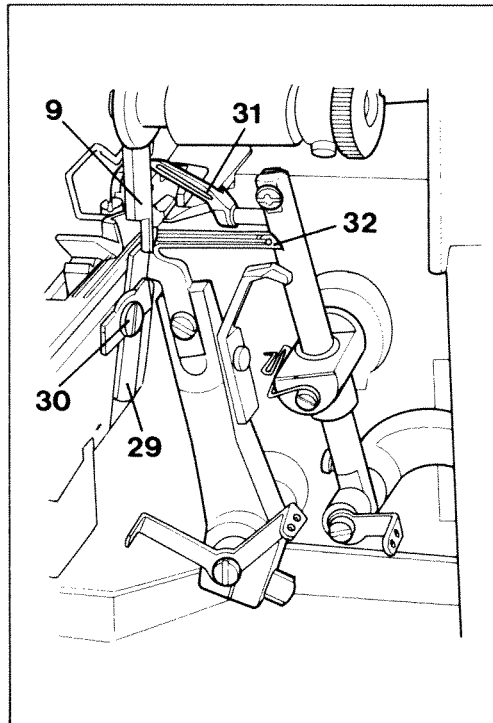
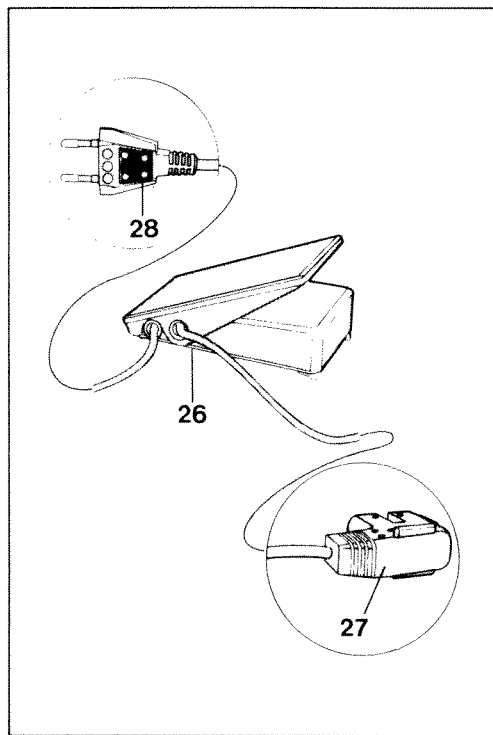
Contents

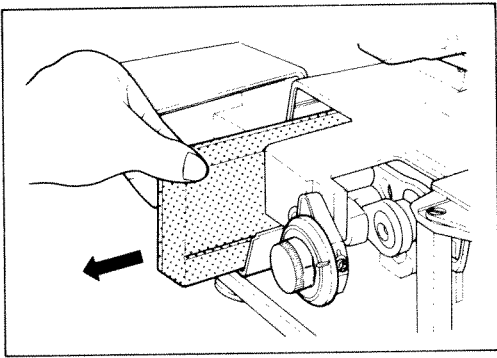
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Controls of the sewing machine

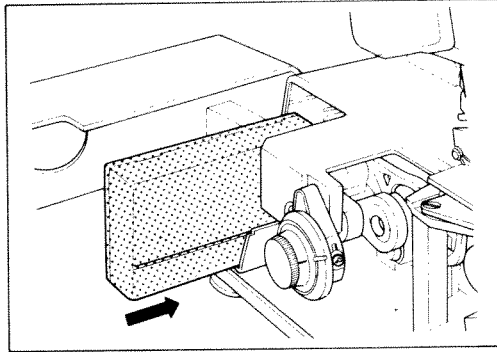
- 1 Foot pressure regulating dial
- 2 Thread guide
- 3 Carrying handle
- 4 Left needle thread tension dial
- 5 Right needle thread tension dial
- 6 Right looper thread tension dial
- 7 Left looper thread tension dial
- 8 Thread tension cover
- 9 Upper knife
- 10 Knife guard
- 11 Presser foot lifter lever
- 12 Hand wheel and feed regulator
- 13 Looper cover
- 14 Looper cover lever
- 15 Work support
- 16 Stitch length setting key on 794
Differential feed setting on 796
- 17 Needle plate
- 18 Presser foot
- 19 Needle bar
- 20 Thread reel stand
- 21 Thread reel pins
- 22 Adjusting knob
- 23 Machine plug socket
- 24 Master switch
- 25 Lint box
- 26 Foot control
- 27 Foot control plug
- 28 Mains plug
- 29 Lower knife
- 30 Knife clamp screw
- 31 Right looper
- 32 Left looper
- 33 Thread guide bar



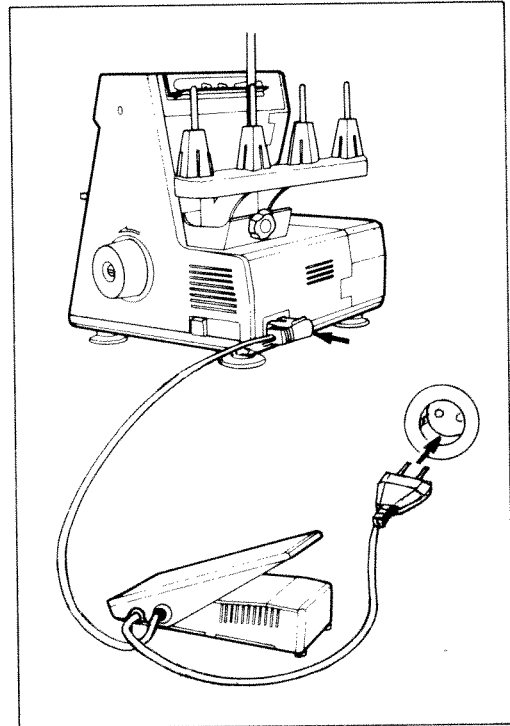


Accessory box

Swing the work support to the left and pull out the accessory box.



To replace the accessory box, slide it into the grooves and push it until it locks. The accessories are illustrated on page 32.

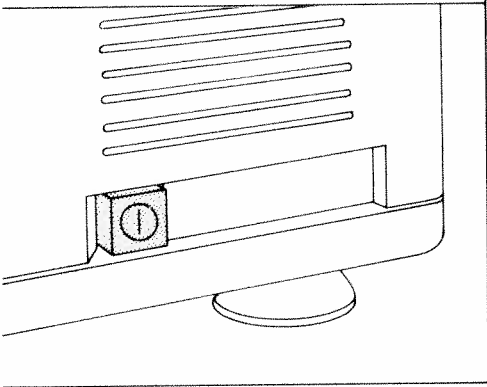
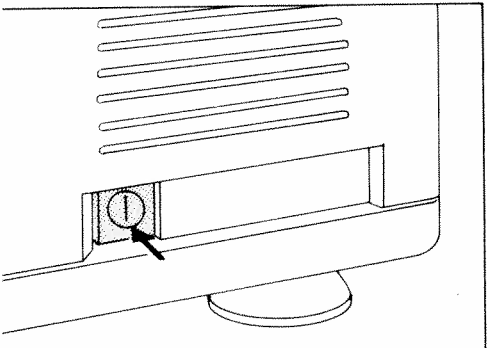


Electrical connection

Use this machine only on a flat surface or on a special sewing table.

Attaching the foot control:
Insert the plug of the control into the machine plug socket. Then connect the mains plug to a power source.

Caution: When the machine is not in use, disconnect plug from power source. Do not place any objects on the foot control.



Switching the machine ON and OFF

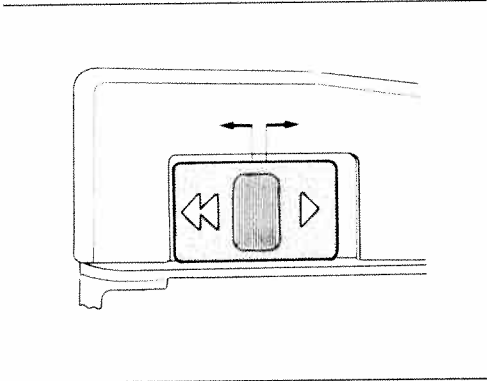
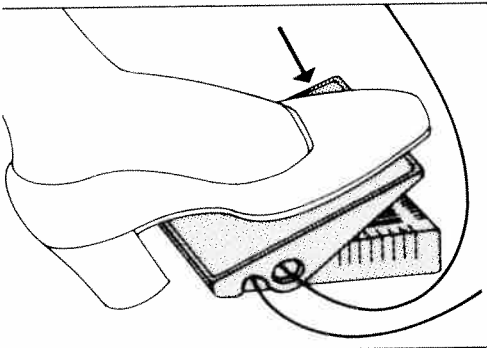
Power and sewing light are switched on and off simultaneously with the master switch.

Switching on:

Press switch. Machine and sewing light are switched on.

Switching off:

Press switch again. Machine and sewing light are switched off.



Foot control

The speed of the Hobbylock is regulated as follows:

When pressing the foot control gently, the machine will run at low speed; when pressing harder, it will run faster.

Electronic foot control

Maximum speed is adjusted in two grades by the switch on the foot control.

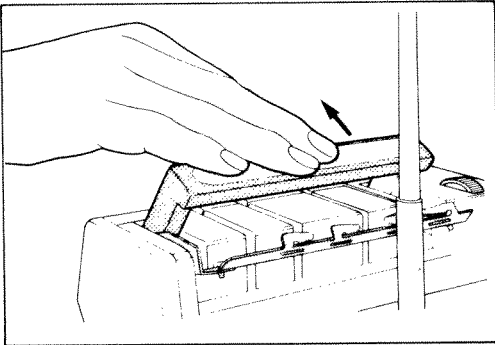
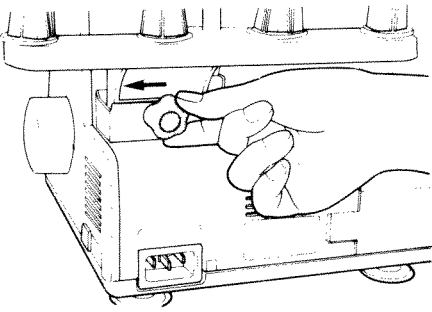
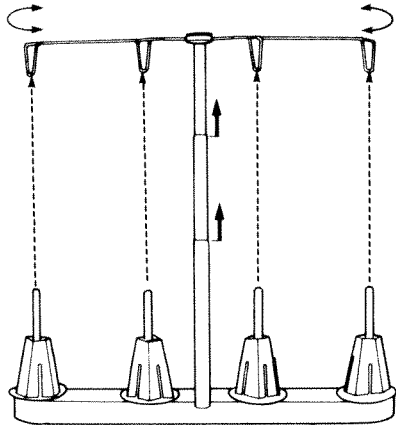
Position ► = Half speed

Position ◀◀ = Full speed

Preparing for threading

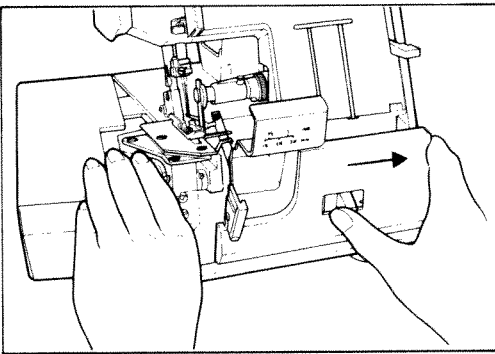
Adjustment of thread reel stand:
Loosen the adjusting knob on the thread reel stand, slide it to the left and tighten it.

Adjustment of the thread guides:
Pull up the thread guide bar and align it so that the thread guides are directly above the reel stand.



Carrying handle and thread guide bar behind it:

Insert fingers into the groove of the carrying handle and pull it up. This movement automatically raises the thread guide bar.



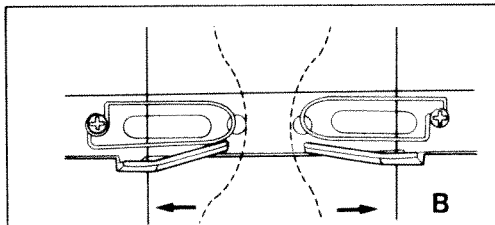
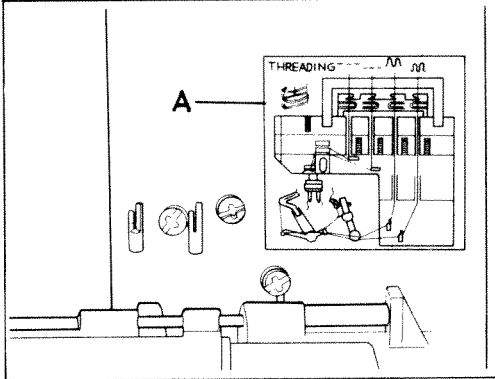
Opening and closing looper cover and work support

Push looper cover lever to the right, swing cover in the direction of the arrow and lower it.

To close the looper cover, push the cover until it locks.

To open the work support, push it to the left. To close the work support, push it to the right until it locks.

A threading diagram is affixed to the machine (A).



Threading procedure

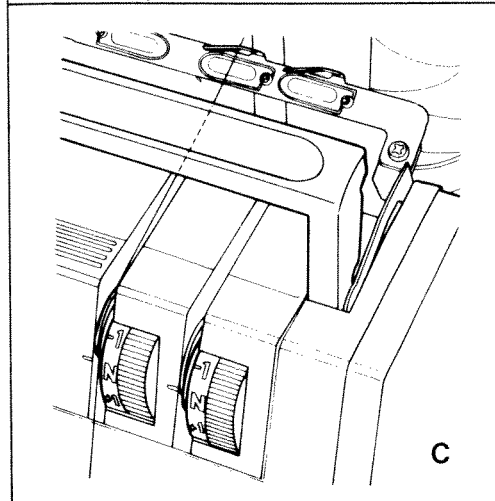
Threading must be done correctly to obtain a well-formed seam. Thread the machine in the following sequence:

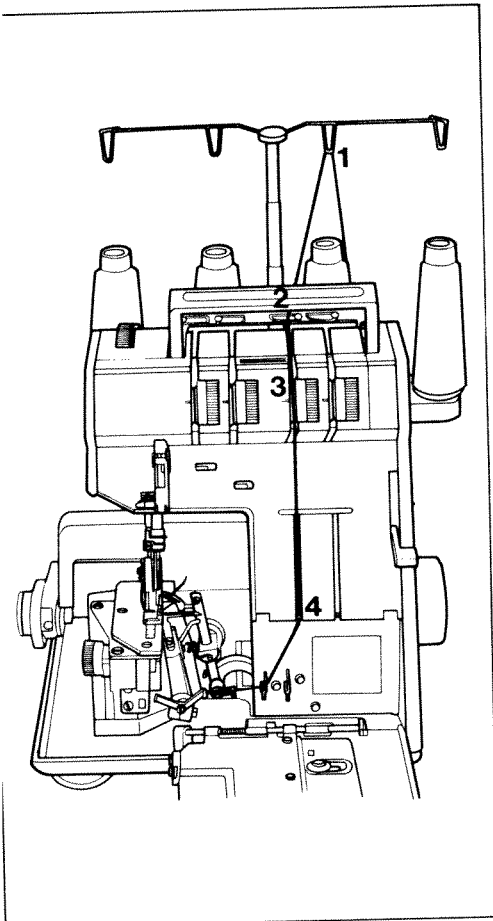
1. Right looper (red)
2. Left looper (orange)
3. Right needle (green)
4. Left needle (blue)

Diagram B shows threading of the thread guides behind the carrying handle.

Diagram C shows threading of the thread tension.

Now pull the respective thread into the corresponding guides and tension discs.



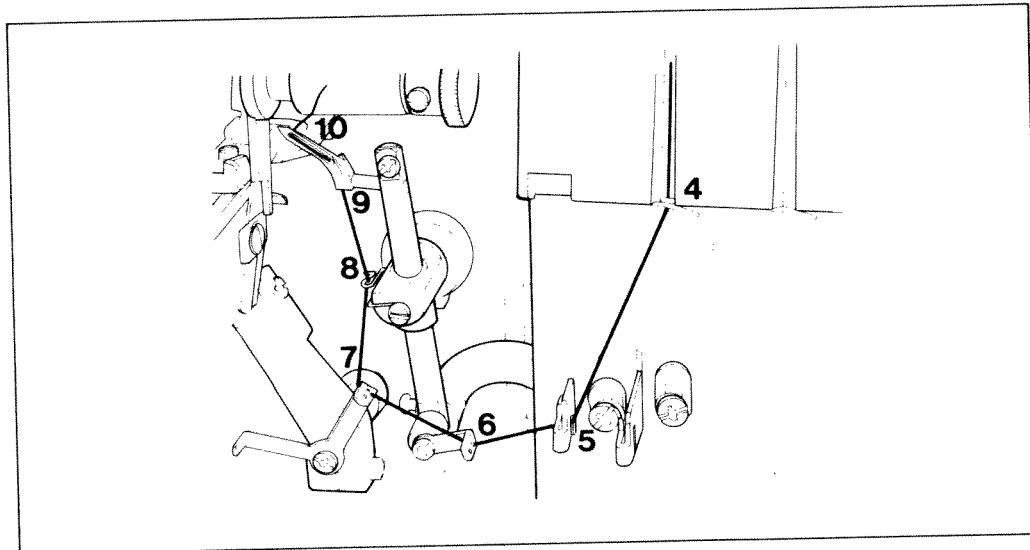


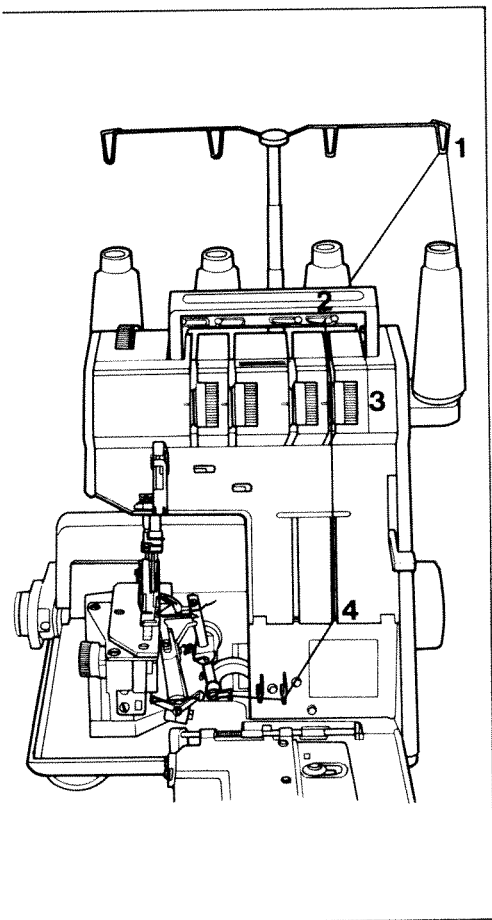
4-thread double overedge seam

For sewing and finishing two layers of fabric.

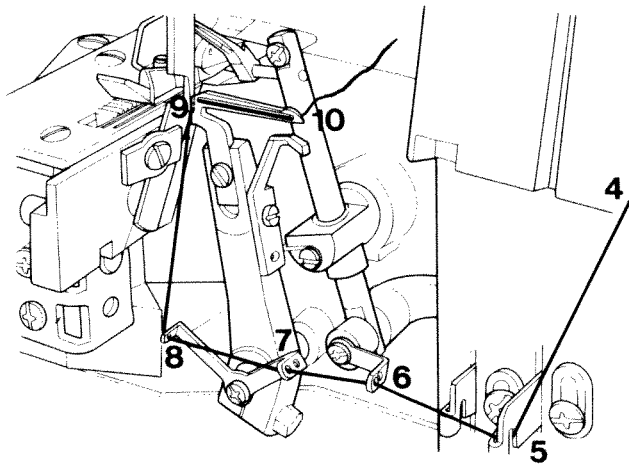
Threading the right looper:

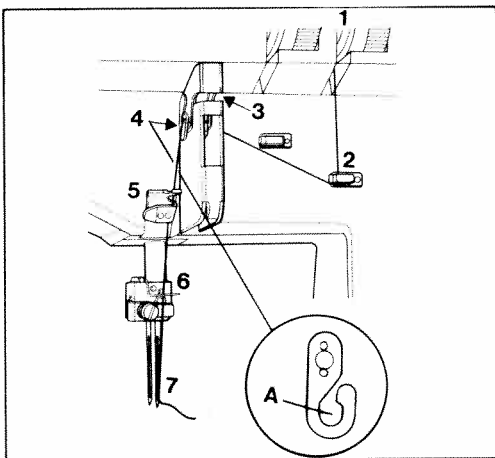
Thread the right looper in sequence 1 to 10 and pull approximately 10 cm (4") of thread through the looper eye (the thread path is marked red).





Threading the left looper:
Insert the left looper thread in sequence
1 to 10 and pull approximately 10 cm
(4") of thread through the looper eye
(the thread path is marked orange).

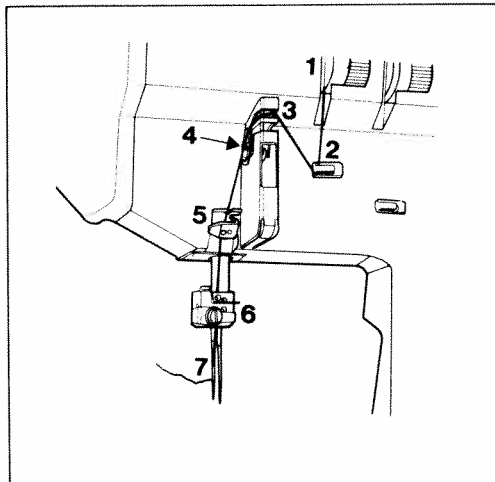




Threading the right needle:

Thread the right needle in sequence 1 to 7 and pull approximately 5 cm of thread through the eye of the needle. (The thread path is marked green.)

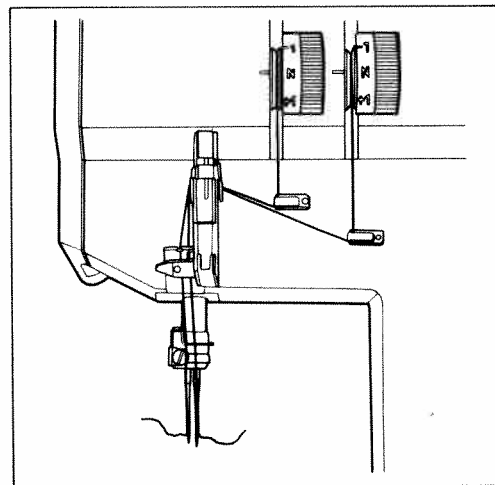
Make sure to thread point 4 with special care; insert the thread behind hook A of the thread guide plates fitted on both sides.



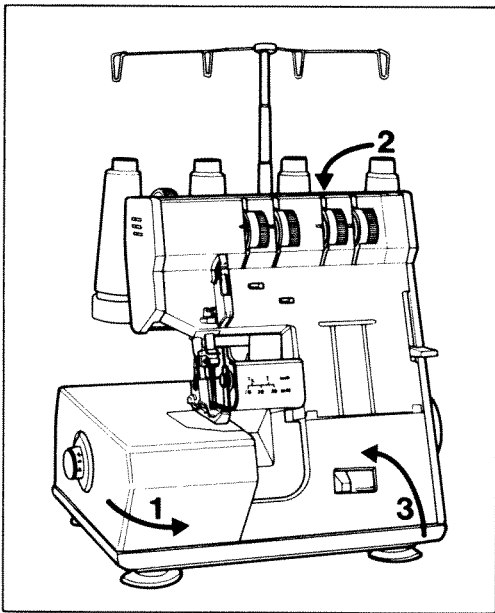
Threading the left needle:

Thread the left needle in sequence 1 to 7 and pull approximately 5 cm of thread through the eye of the needle. (The thread path is marked blue.)

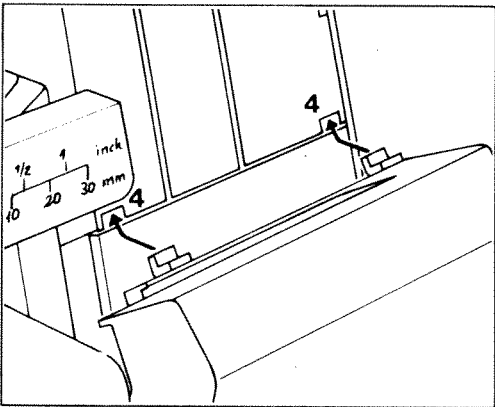
Make sure to thread point 4 with special care; insert the thread behind hook A of the thread guide plates fitted on both sides.



The diagram shows the correctly threaded machine.

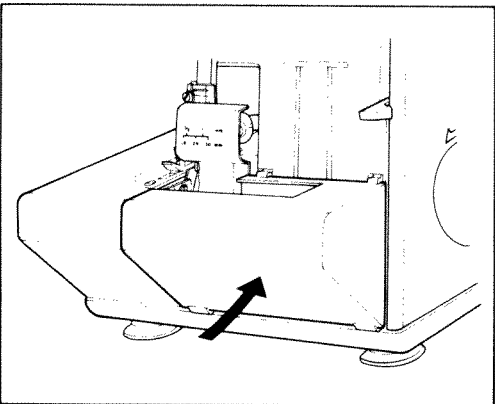


Now close the work support (1), push the handle down (2) and close the looper cover (3).



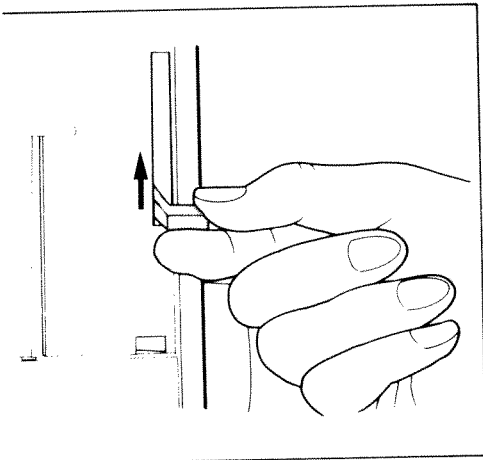
Inserting the lint box:

Insert the tabs of the lint box into the slots (4) of the front cover.



Push the lint box up against the front cover until it snaps in place.

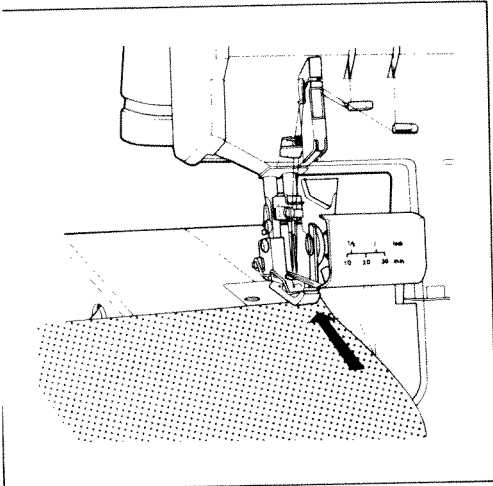
Use the reverse order to remove lint box.



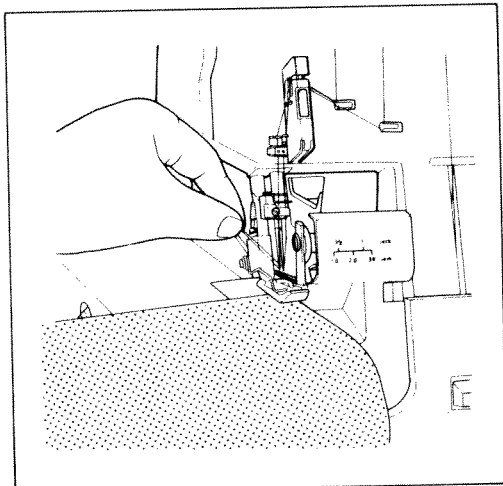
Sewing a test sample

After threading, a test sample should be sewn.

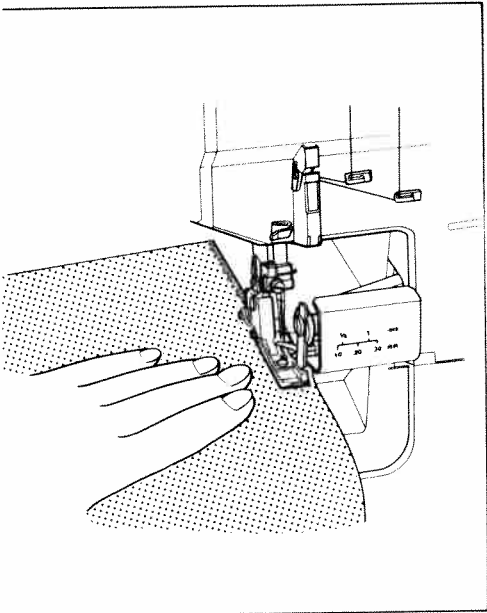
Raise presser foot lever, as shown in illustration.



Insert test fabric and lower presser foot.



Hold thread ends with your left hand while turning hand wheel counter-clockwise with your right hand. In doing so, the threads must be guided to the rear, under the presser foot. Make sure that threads have interlocked correctly.

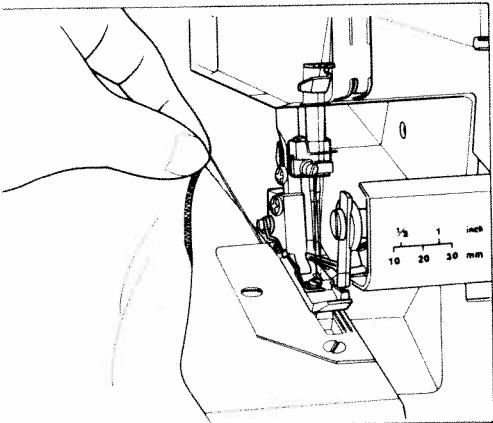


Points to observe during sewing

Place the fabric completely under the presser foot when starting to sew. (Also after the machine has been re-threaded).

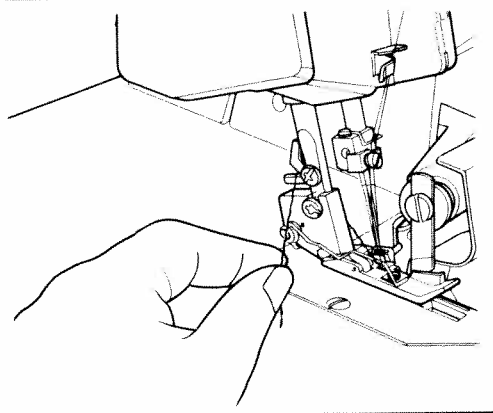
Sew the first stitches slowly.

Since the fabric is fed automatically, do not pull or push the fabric. Use your hand for guiding only.



Finishing seam

Sew approximately 5 cm beyond the end of the seam and use the thread cutter (1) behind the presser foot to cut the thread chain.



Securing the seam:

Knot the thread chain. For knit fabrics, a crochet needle can be used to pull the thread chain into the seam.

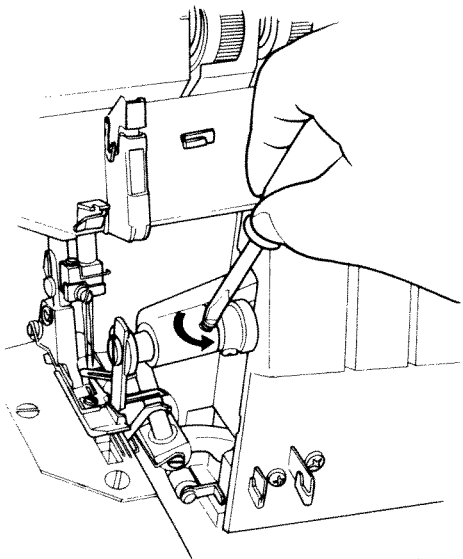
To prevent ravelling of seams, sew approximately 3 cm (1") beyond the seam. Raise presser foot. Flip fabric over. Lower presser foot and sew over the seam approximately 2 cm (1/2") without cutting the chain.

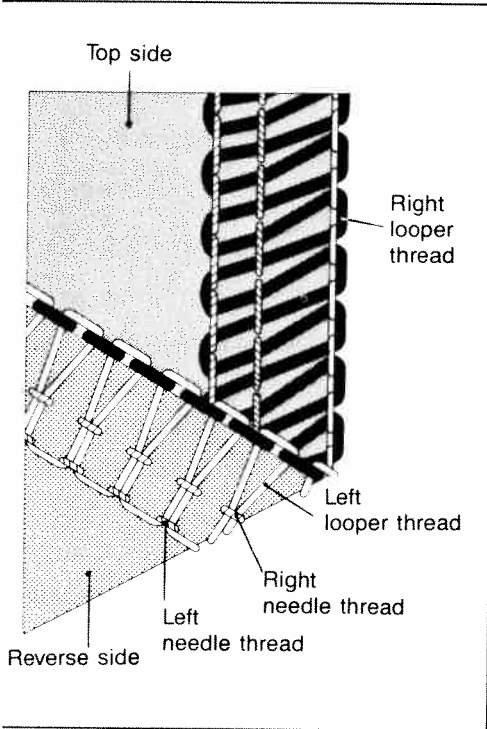
Sewing very heavy fabrics and different thicknesses of fabric:

This machine will sew through very thin to very heavy fabrics. When sewing very heavy fabrics, tighten the upper knife screw.

Note:

When sewing thin fabrics, loosen the upper knife screw after sewing on heavy fabrics. (See illustration).





Setting thread tensions:

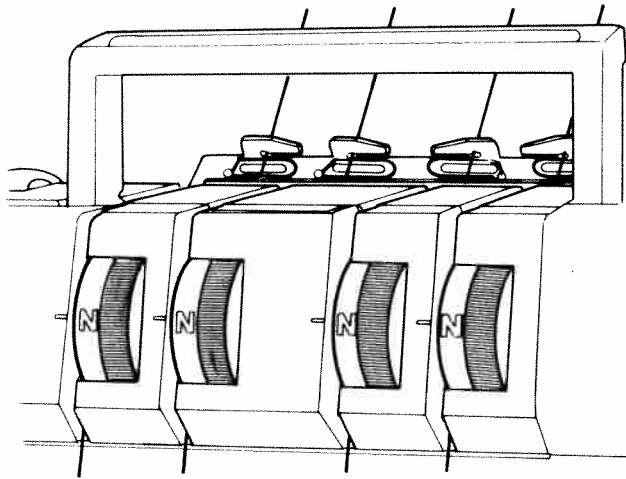
The thread tension should be adjusted according to fabric type and thread size.

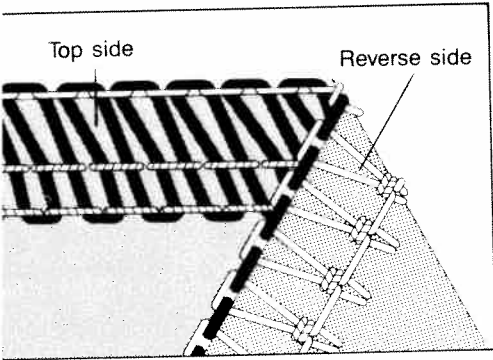
Examine the seam and make the necessary tension adjustments.

Adjusting thread tension:

Set all thread tension dials to "N" (standard setting). See illustration below.

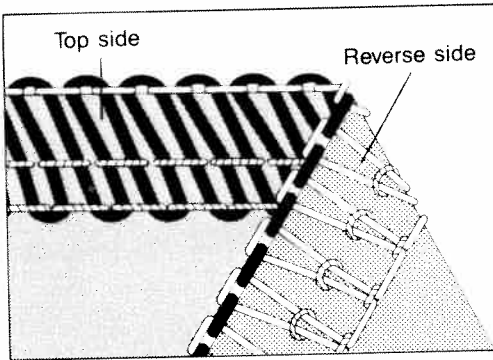
Sew a test sample to be sure that the correct tension has been obtained. See illustration above.



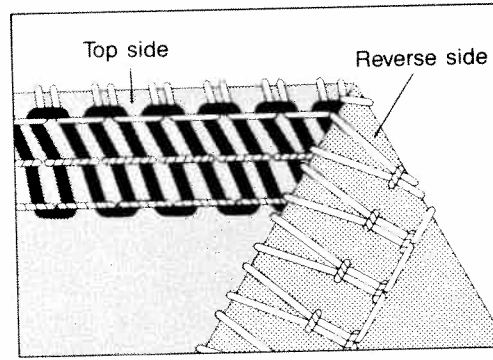


When the thread tension is turned in (+) direction, the tension is increased. When turned in (-) direction it is decreased.

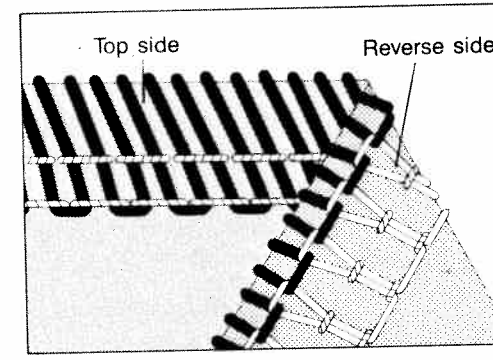
Incorrect thread tension:
The left needle thread is too loose (blue thread tension).



The right needle thread is too loose (green thread tension).



The right looper thread is too tight (red thread tension) or the left looper thread too loose (orange thread tension).



The left looper thread is too tight (orange thread tension) or the right looper thread too loose (red thread tension).

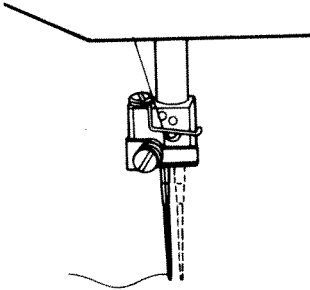
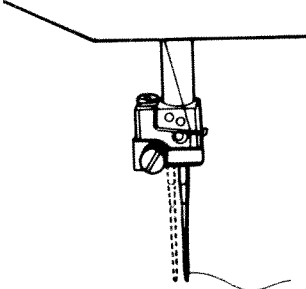
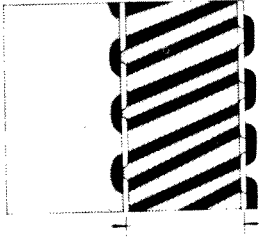
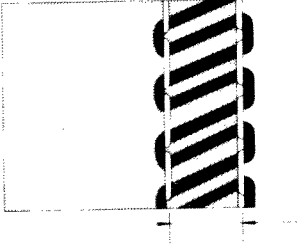
3-thread overedge seam

How to convert from four-thread to three-thread sewing:

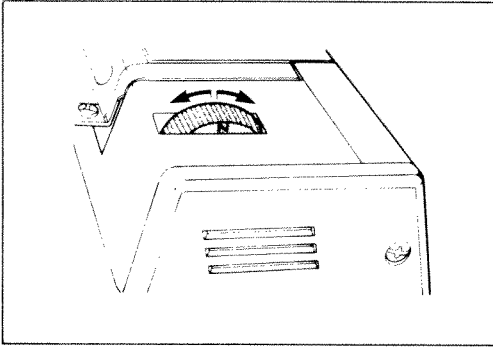
Three-thread sewing is possible by using either right or left needles (see page 10).

Remove the needle that is not used (see page 26).

3-thread overedge seam

Needle thread	Left needle	Right needle
Thread tension	Marked blue	Marked green
Thread in needle clamp guides		
Standard seam width		
maximum seam width	6.5 mm	4.5 mm

Thread chart		
Material	Thread	Stitch length
Light materials: Organdy, light-knit fabric, Taffeta, silk, lining materials.	Cotton No. 80-100 Silk No. 80-100 Synthetic thread No. 70-140	2.0 to 4.0 mm
Medium-heavy materials: Cotton, tricot, linen, dress materials	Cotton No. 60-100 Silk No. 50-100 Synthetic thread No. 70-140	2.0 to 4.0 mm
Heavy materials: Tweed, suit materials, denim, heavy cloth	Cotton No. 40-60 Silk No. 40-60 Synthetic thread No. 70-140	2.0 to 4.5 mm
Knit fabrics:	Cotton No. 40-60 Silk No. 40-60 Synthetic thread No. 70-140	2.0 to 4.5 mm
Rolled hem	Polyester thread No. 120/2 (180) Mercerized thread (bulk thread)	1.5 to 2.5 mm



Sewing foot pressure:

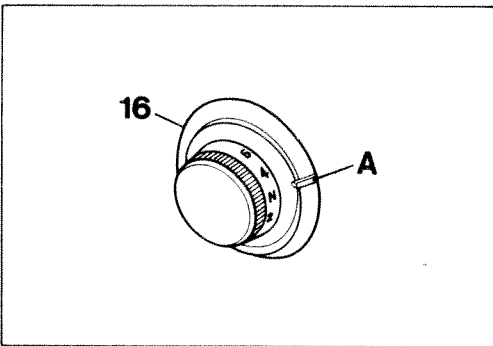
Position "N" of the foot pressure dial is the standard sewing foot pressure. It is normally reset only for very thin or heavy fabrics.

Thin fabrics:

Reduce the sewing foot pressure by setting to a lower number.

Heavy fabrics:

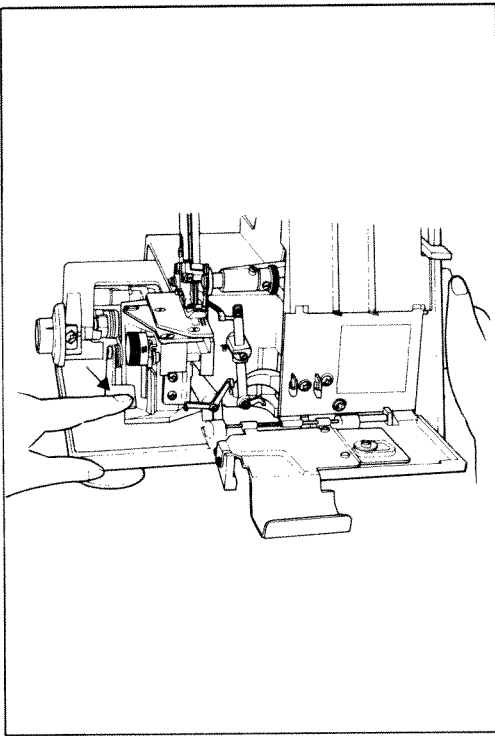
Increase the sewing foot pressure by setting to a higher number.



Stitch length setting on 794

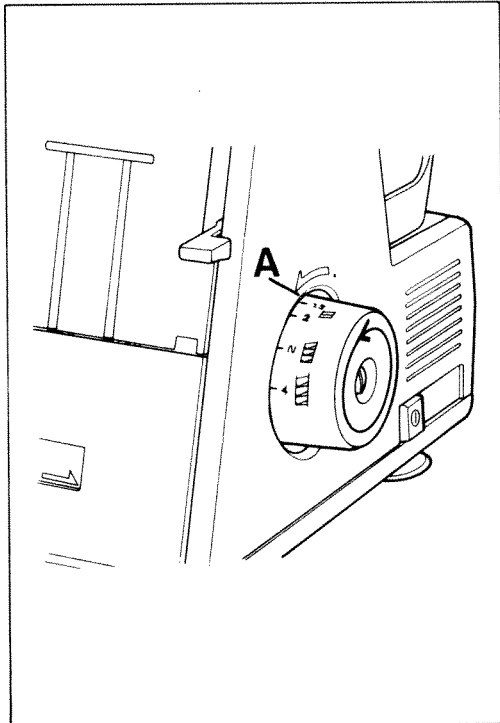
The stitch length is regulated by turning feed regulator 16. The numbers indicate the stitch length in mm which normally is N (3 mm).

A = setting mark.



Setting the stitch length on 796

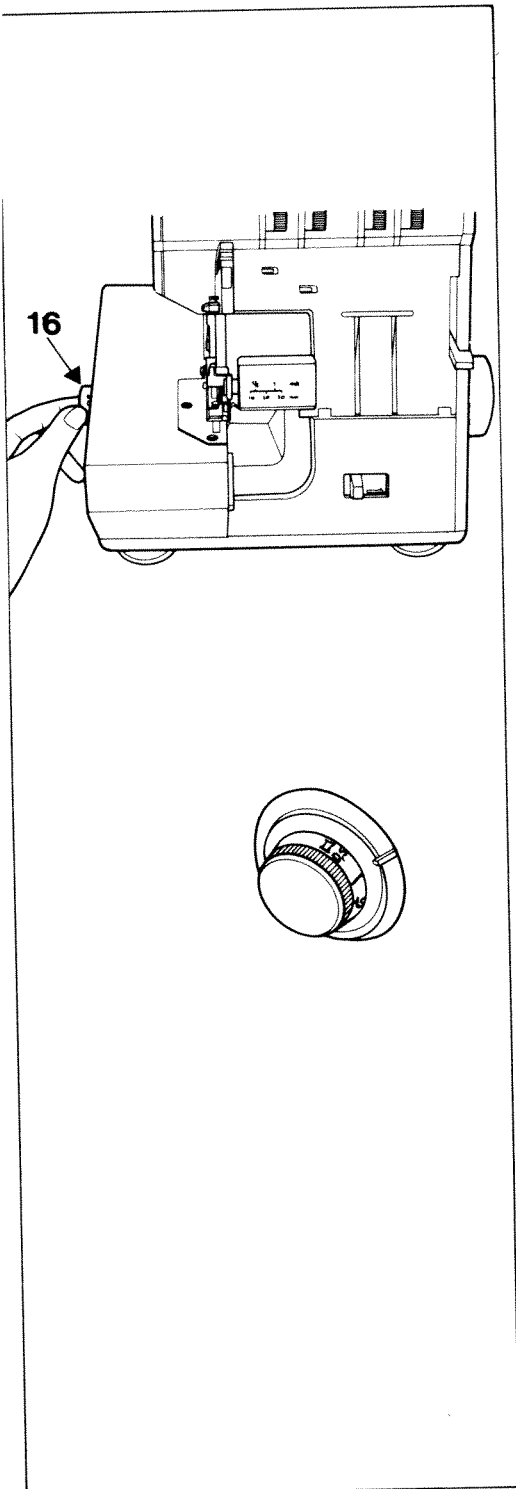
Open lateral swivel table 15. Press stop of main feed dog (see arrow) fully downwards and hold it there. Turn handwheel 12 in the direction indicated by the arrow until it snaps into place.



Set the required stitch length at mark A by continuing to turn handwheel 12 forwards or backwards, as may be required (point of arrow).

The numbers indicate the stitch length in mm which normally is $N = 3$ mm.

The stitch length is set firmly as soon as you release the stop of the main feed dog.



Adjusting the differential feed

The differential feed prevents inter-ply shift. It consists of two feed dogs, arranged one behind the other, which both pick up and move the workpiece at the same time.

The feed amount of either feed dog can be set separately. It is possible to have the workpiece moved more by the front feed dog than by the rear one and vice versa. Owing to that very good sewing results are accomplished. Set the differential feed according to the material you wish to process (see table on page 21). The following settings at button 16 are possible:

Setting 0.5 = Short stroke of front feed dog, long stroke of rear feed dog

Setting — = Same stroke of both feed dogs

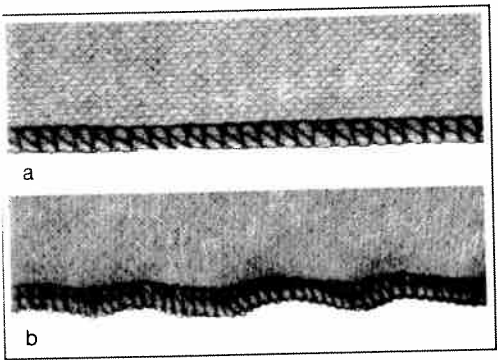
Setting 1.5 = Long stroke of front feed dog, short stroke of rear feed dog

Setting 2 = Front feed dog set for longest possible stroke, rear feed dog set for shortest possible stroke

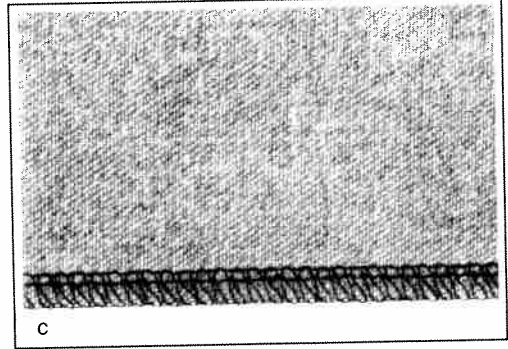
The differential feed can be set infinitely from 0.5 to 2, also during sewing.

This table indicates possible settings of the differential feed. In order to make sure about the setting required for the fabric you wish to process a sewing test has to be made. The differential feed can also be set during sewing.

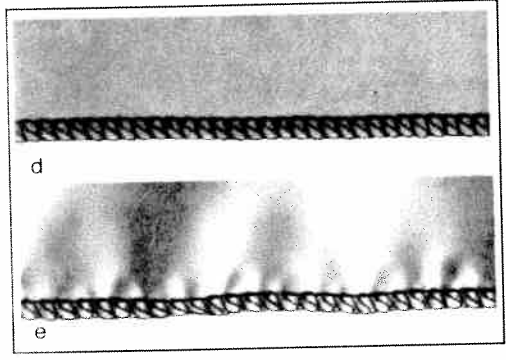
Setting of differential feed	Illustration	Correct seam	Fabric
0.5	1	a	Nylon, tricot, lining fabrics, popelin
—	2	c	Light cotton, jeans (normal fabrics)
1.5	3	d	Jersey, silk, medium cotton, nicki fabrics, light knittings
2	4	f	Heavy knitwear, very elastic fabrics



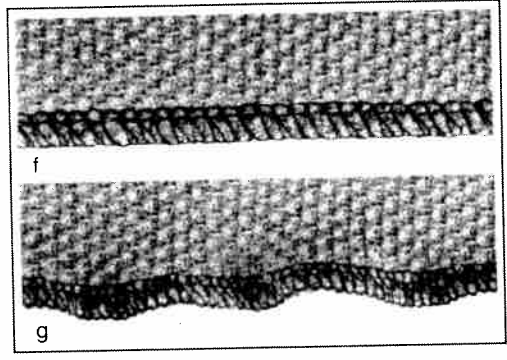
III. 1



III. 2

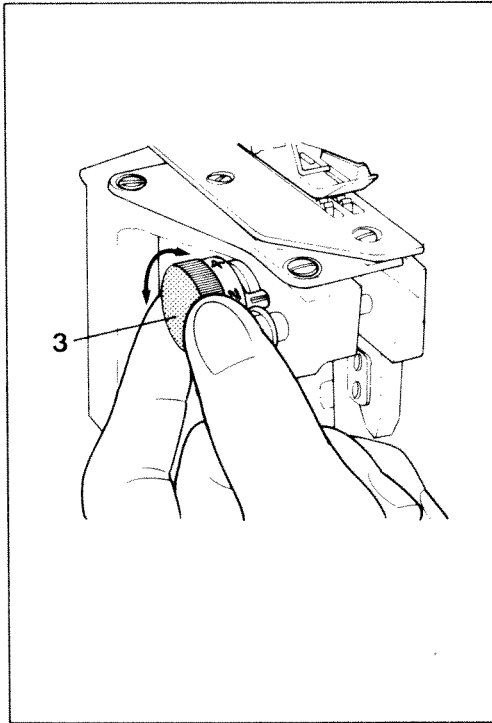
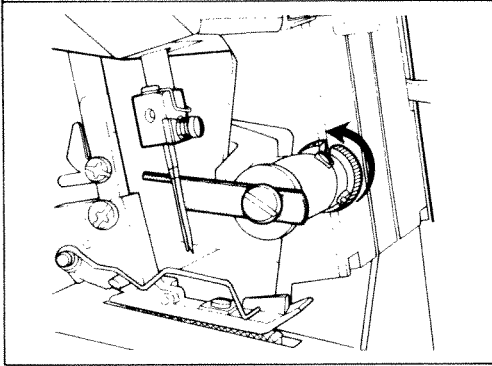
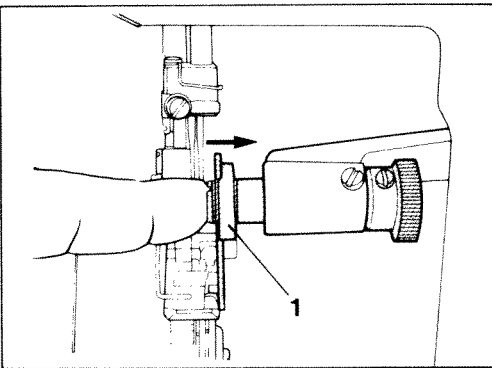


III. 3



III. 4

Gathering can be employed to obtain fashionable effects on garments (differential feed setting 2).



Adjusting seam width:

Standard setting is 3.5 mm. The seam width can be changed from 2.5 to 6.5 mm, according to fabric type and seam requirements.

Note:

Before adjusting the stitch width, always disengage the upper knife.

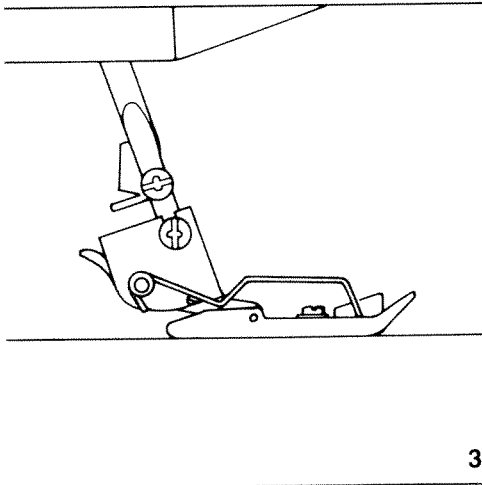
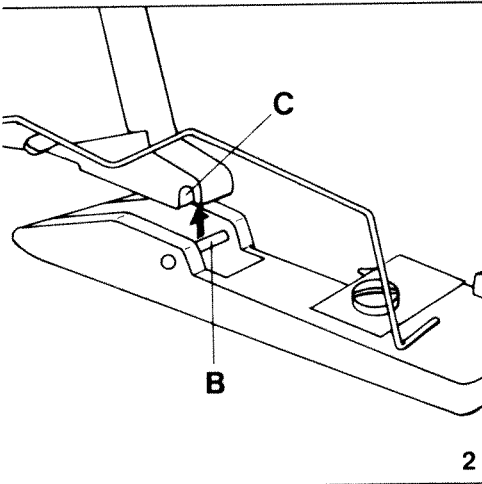
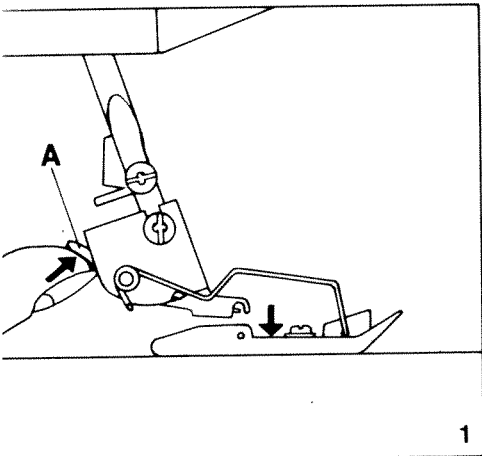
To disengage upper knife, open looper cover. Push upper knife holder (1) to the far right. Turn knurled knob (2) clockwise until it clicks.

Choose the required seam width by turning the stitch width button (3). Normal stitch width is "N". Reset the upper knife to the lower (cutting) position and close the looper cover.

Sew a test sample.

Note:

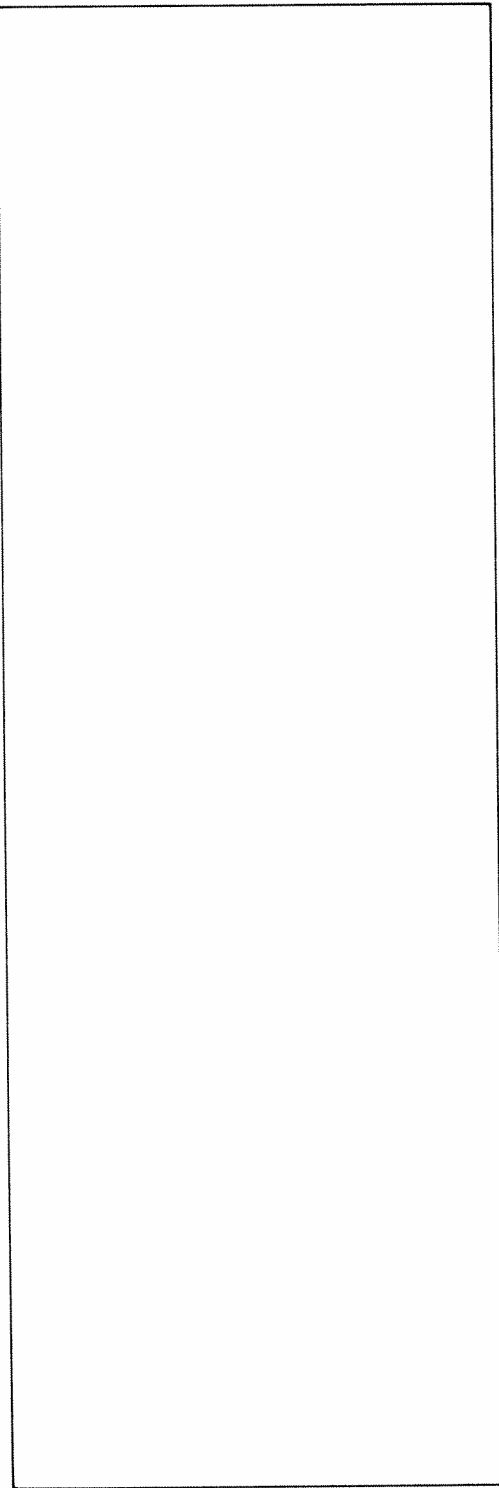
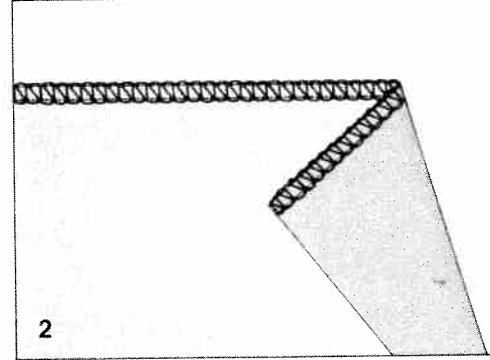
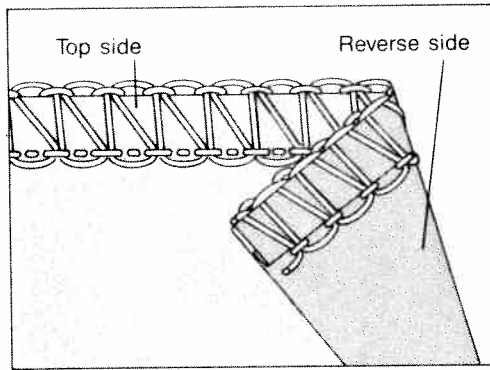
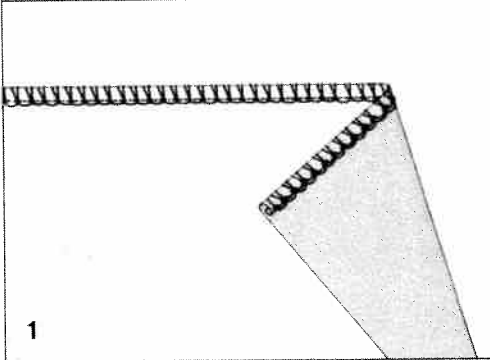
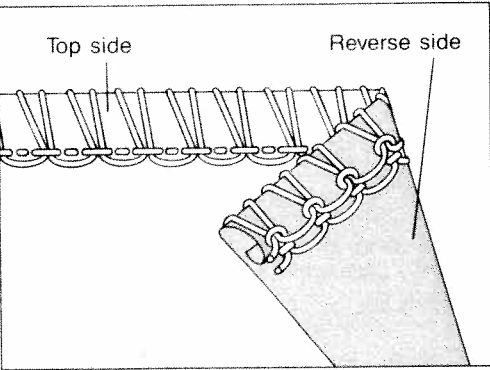
After adjusting the seam width, it may be necessary to reset the thread tension.



Changing the sewing feet

Push lever A up slightly (Fig. 1), and the presser foot will snap out.

Place the foot under the presser foot holder so that crosspiece B of the rolled hem foot engages in groove C of the holder (Fig. 2). Push the presser foot lever down and with the other hand gently push lever A up until the foot snaps on.



Rolled hem

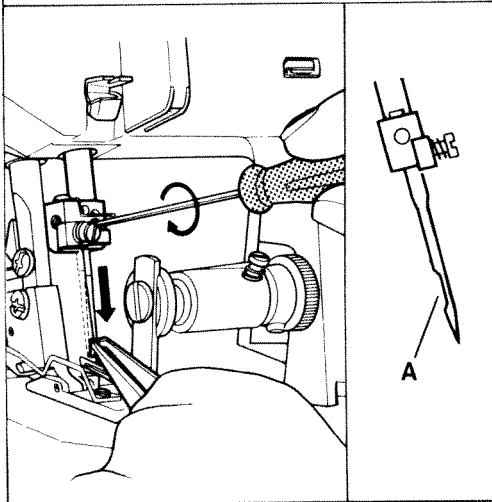
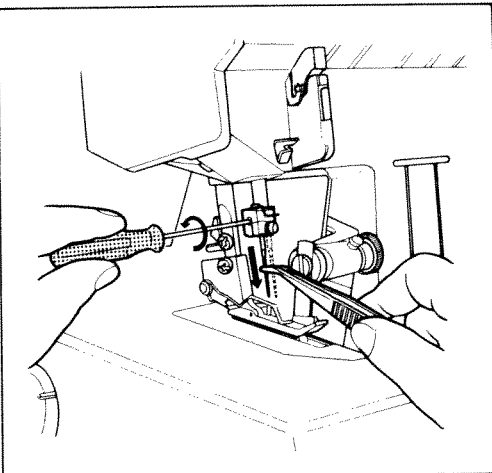
Use a rolled hem on fine and delicate fabrics. A quick test to determine if the fabric is suitable for a rolled hem is to roll the fabric between thumb and index finger. If it rolls, the Pfaff Hobbylock will quickly produce a professional rolled hem.

1. Remove left needle.
2. Snap on rolled hem foot, marked with the letter "R", from accessory box.
3. Use green, red, and orange threading paths only.
4. Thread the above three threading paths with Mez Alcazar rayon thread for a rolled hem with a satin finish. Or use regular sewing thread, woolly nylon or any other good quality thread.
5. Set stitch length at the shortest setting 1.
6. Set stitch width at 2.5.
7. Set green threading path (needle tension) at N.
8. Set red threading path (upper looper tension) at + 4 or + 5, depending on the fabric used.
9. Set orange threading path (lower looper tension) at + 3 or + 5, depending on the fabric used.

Flat hem

Use a flat hem on heavier fabrics that cannot be rolled. The Pfaff Hobbylock 794 is also perfect for this type of hem.

1. Remove left needle.
2. Snap on rolled hem foot, marked with the letter "R", from the accessory box.
3. Use green, red, and orange threading paths only.
4. Thread the above three threading paths with Mez Alcazar rayon thread for a hem with a satin finish. Or use regular sewing thread, woolly nylon or any other good quality thread.
5. Set stitch length at the shortest setting 1.
6. Set stitch width at 2.5 for a narrow flat hem. Or set the stitch width at a higher setting for a wider hem.
7. Set green threading path (needle tension) at N.
8. Set red threading path (upper looper tension) at + 3, + 4, or + 5, depending on the weight of the fabric.
9. Set orange threading path (lower looper tension) at + 2 or more, depending on the weight of the fabric.



Changing needles

Removing needle:

Unplug the machine.

Turn the hand wheel counter-clockwise to raise the needle bar to its highest position. Loosen the needle clamp screw with the allen wrench and pull the needle out.

Inserting needle:

When the needle bar is at the highest position, insert a new needle in the needle holder, making sure the groove of the needle faces you and scarf A (centre of illustration) can be seen from the side. Push the needle up as far as it will go and tighten the needle clamp screw.

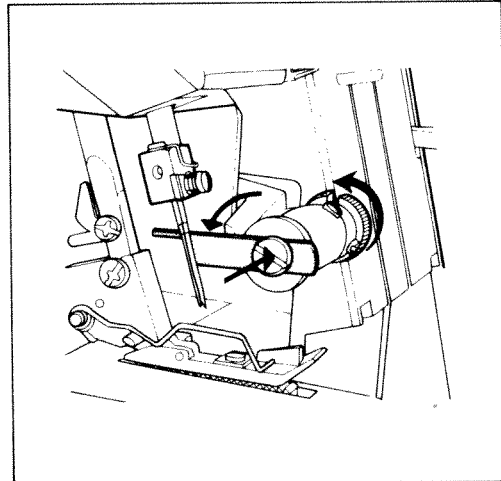
Notes:

System DB x 1, or 1738 needles are used with this machine.

Although the correct needle size depends on the fabric and thread used, a size 14 needle is recommended.

An incorrectly inserted needle will cause thread breakage and skipped stitches.

Always turn the machine OFF when changing needles.



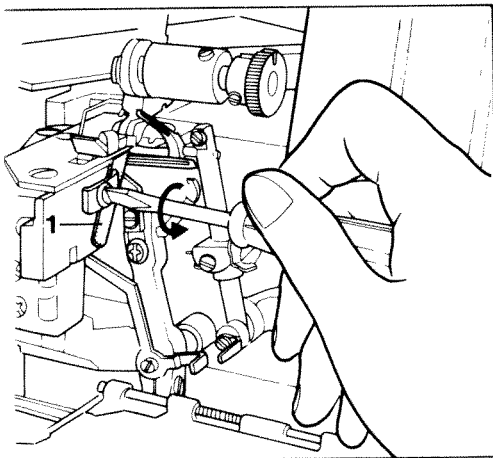
Changing knives

Knives are available as spare parts and should be replaced when they are blunt.

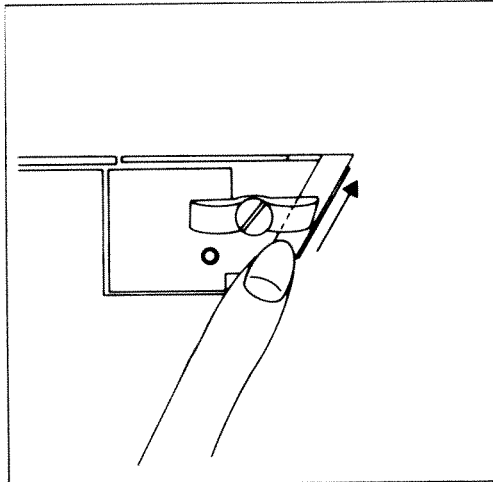
Removing lower knife:

Unplug the machine.

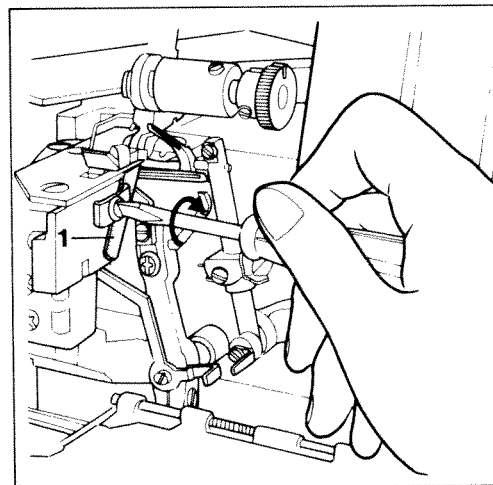
Raise the needle bar. Push the upper knife holder to the far right and turn the knob clockwise until it clicks.



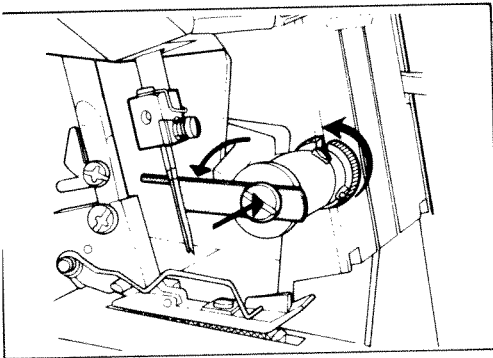
Loosen knife clamp screw (1) and pull the lower knife down.



Inserting lower knife:
Insert a new knife into the groove of the lower knife holder with the cutting edge facing right.
Set the knife so that the cutting edge aligns with the surface of the needle plate.



Tighten the lower knife clamp screw.
Push upper knife to the right and turn to the front until it snaps into place (operative position).

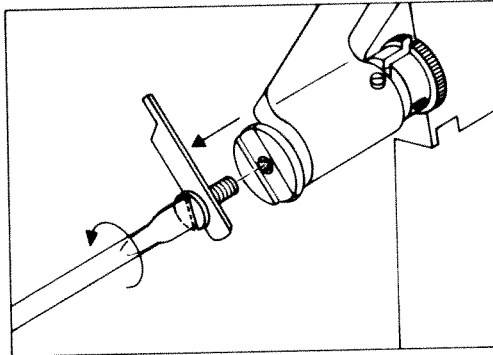


Changing upper knife:

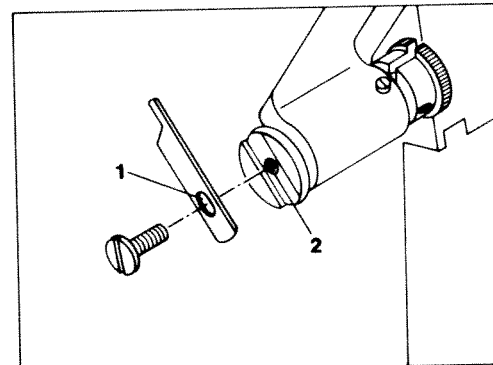
The upper knife is carbide tipped and will not need to be replaced with normal use. It has to be replaced only when the cutting edge has been damaged.

Unplug the machine.

Push the upper knife holder to the far right and turn the knob clockwise until it clicks.

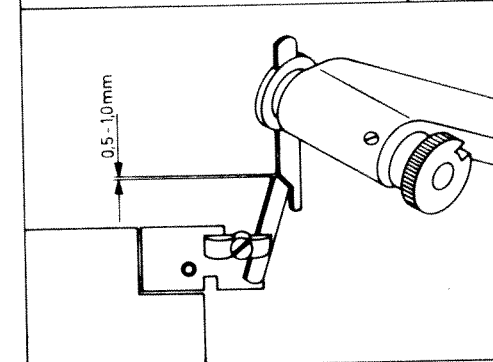


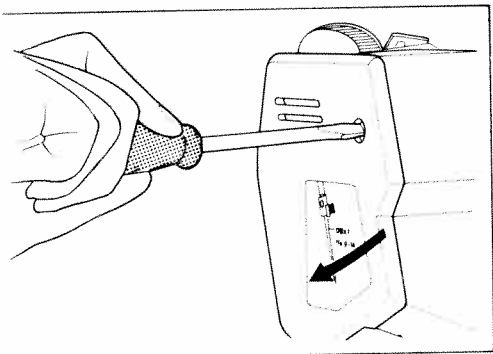
Unscrew the knife retaining screw and remove upper knife.



To replace the upper knife, insert the retaining screw through cutout (1) of the knife. Screw it into threaded hole (2) of the knife holder. Tighten slightly and set the upper knife in the cutting position.

Turn the hand wheel counter-clockwise until the upper knife arm is in the lowest position. The front edge of the upper knife should be 0.5 to 1.0 mm lower in this position than the surface of the needle plate. Tighten the retaining screw securely.

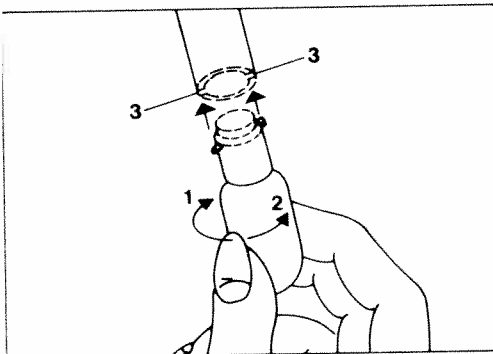




Changing the light bulb:

Unplug the machine.

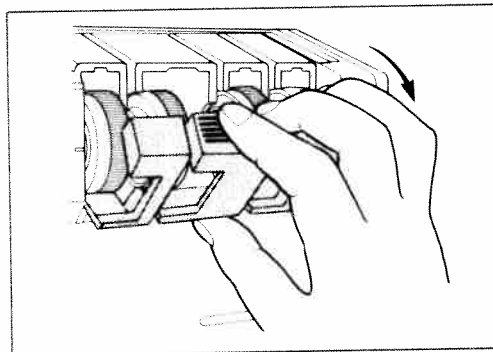
Remove the retaining screw from the light cover and swing cover to the left.



Turn the bulb in direction (1) and remove it. Insert the new bulb with pins into slots (3). Push bulb up and turn it in direction (2).

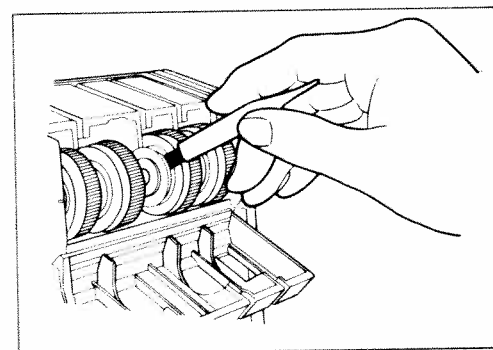
Replace cover.

Caution: Use a 15 watt bulb only.



Cleaning thread tensions:

Flip the tension cover down.



Use the brush provided with the accessories to remove dust and lint from the discs.

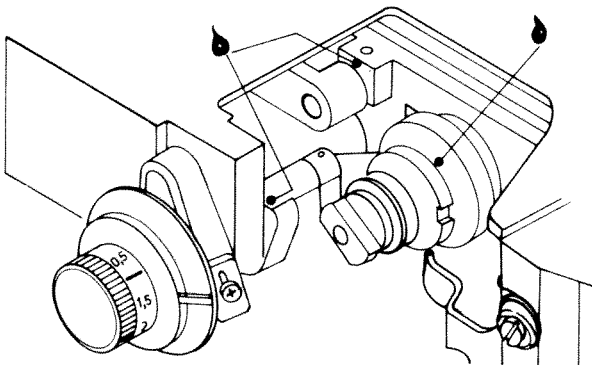
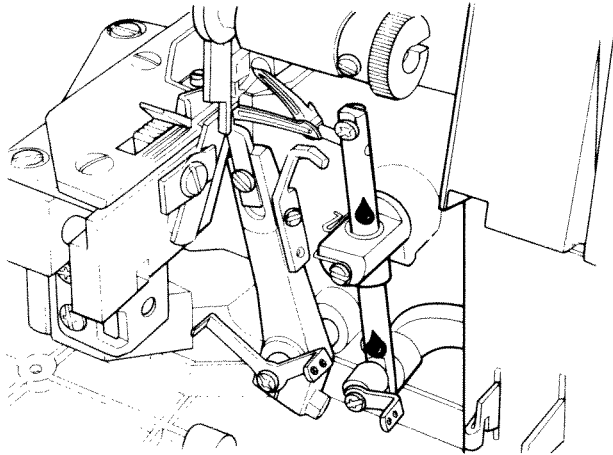
Close the tension cover.

Oiling the machine:

Always clean the machine of lint and dust prior to oiling.

Use only one to two drops of good quality sewing machine oil at the places indicated (Fig. 1).

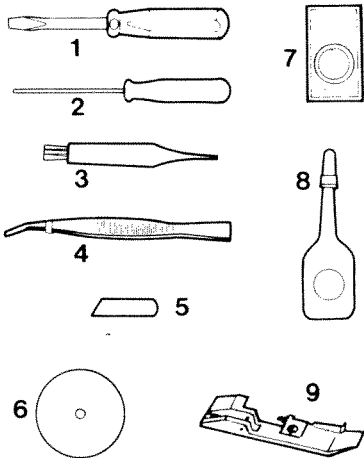
Since the bushings are oil impregnated, they need to be oiled only once or twice a month (Fig. 2).



Sewing problems and solutions

This machine is easy to operate and there are no difficult adjustments to be made. Problems, similar to the ones described below, occur because of simple adjustment errors. They can easily be corrected by the solutions offered.

Problem	Cause	Solution
Material is not fed correctly	Sewing foot pressure too weak	Turn sewing foot pressure screw clockwise to increase pressure.
Needle breakage	Needle bent or point damaged. Needle not correctly inserted. Material pulled	Insert new needle. Insert new needle correctly (see page 26). Do not pull or push material during sewing.
Thread breakage	Incorrectly threaded Thread has caught Thread tension too tight Needle not correctly inserted Incorrect needle used	Thread correctly (see pages 7-11). Check whether thread catches at the reel stand, etc. Regulate tension, (page 15, 16). Insert needle correctly (page 26). Use needle system DB x 1 (or 1738).
Skipped stitches	Needle bent or damaged Needle not correctly inserted Incorrect needle used Incorrectly threaded Sewing foot pressure too weak	Insert new needle. Insert needle correctly (page 26). Use needle system DB x 1, or 1738 Thread correctly (pages 7-11). Increase sewing foot pressure.
Incorrect stitch formation	Incorrect setting of thread tensions	Set thread tensions correctly (pages 15, 16).
Puckered seams	Thread tension too tight Thread has caught due to incorrect threading	Reduce thread tension (especially for light materials) pages 15, 16. Thread correctly (pages 7-11).



Accessories

- 1 Screwdriver
- 2 Allen wrench
- 3 Lint brush
- 4 Tweezers
- 5 Lower knife
- 6 Thread unreeling disc
- 7 Needles
- 8 Oil
- 9 Rolled hem presser foot

Optional accessories
(not illustrated):
Blindhem foot
Elastic foot

Specifications

Highest sewing speed	1,300 stitches/min.
Overedge seam width	3.0-6.5 mm
Stitch length	1-5 mm
Sewing foot	Snap-on
Lubrication	Manual
Needle system	DB x 1 or 1738 (size 9-14)
Dimensions	24 x 22 x 18.5 cm
Weight	approx. 8.5 kg (19 lbs.)



PFAFF-HANDELSGESELLSCHAFT
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7500 Karlsruhe 41 · West Germany

Subject to alterations in design
No. 30 068 R 0288 engl.