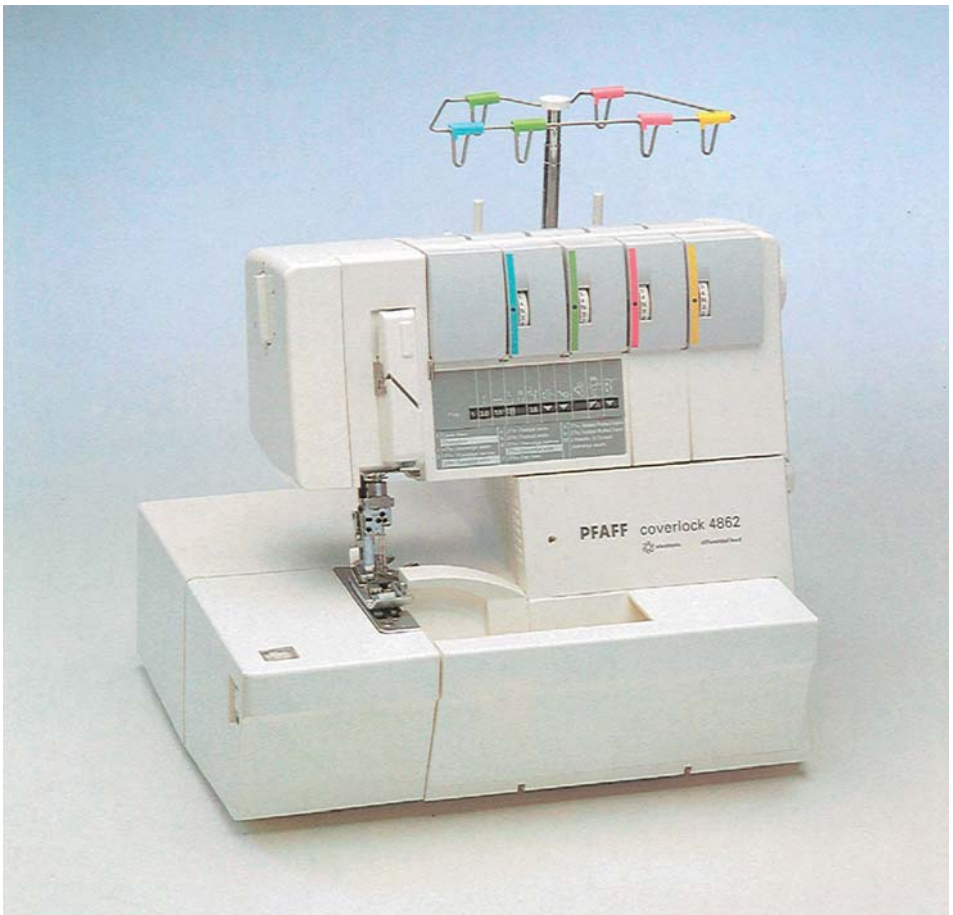


**PFAFF®**

coverlock  
4862



Owner's manual

This household sewing machine is designed to comply with IEC/EN 60335-2-28 and UL1594

## **IMPORTANT SAFETY INSTRUCTIONS**

When using an electrical appliance, basic safety precautions should always be followed, including the following:

Read all instructions before using this household sewing machine.

### **DANGER - To reduce the risk of electric shock:**

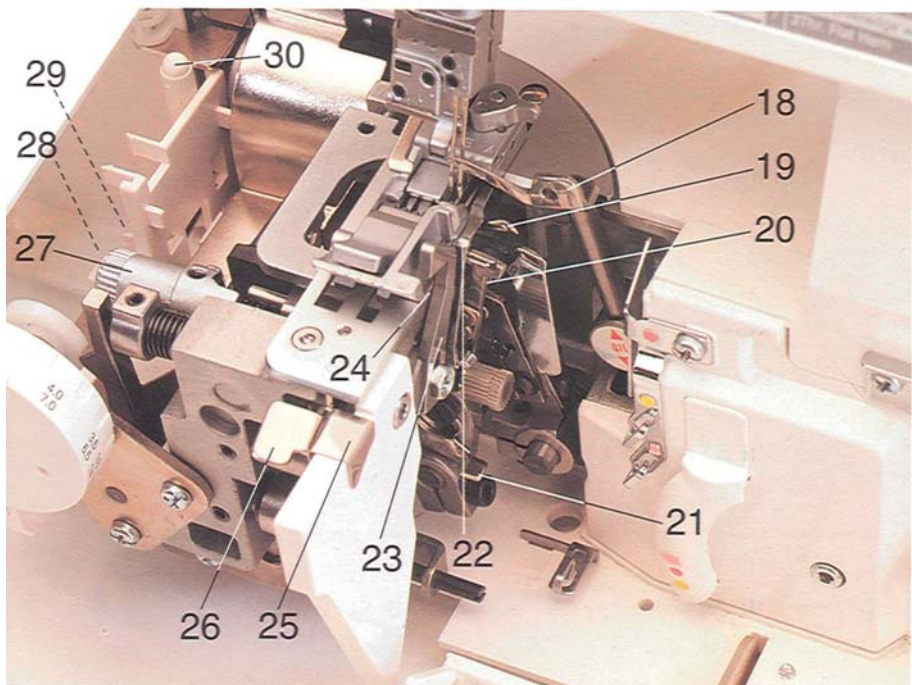
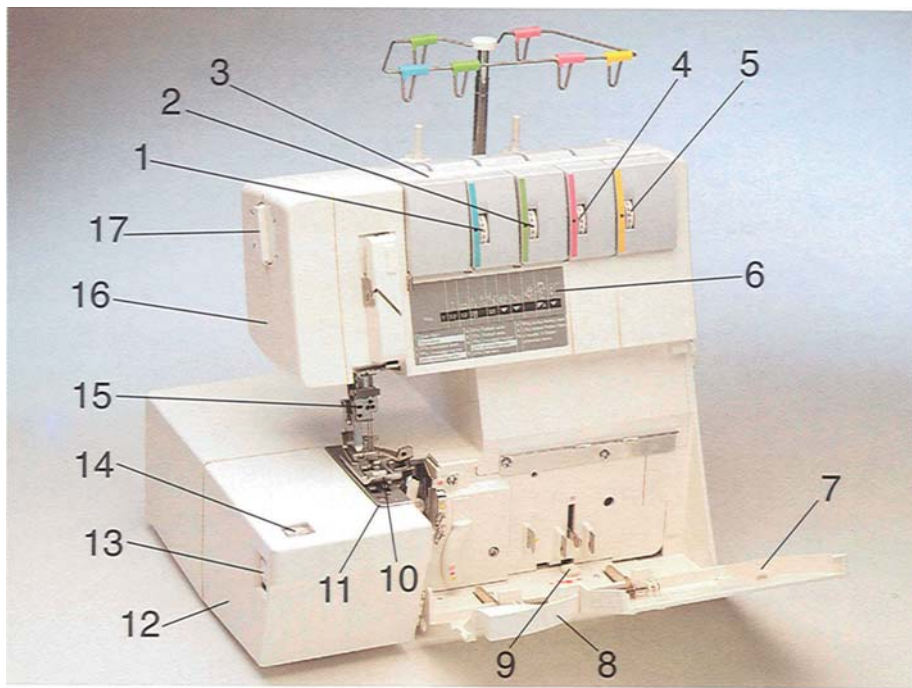
- A sewing machine should never be left unattended when plugged in. Always unplug this sewing machine from the electric outlet immediately after using and before cleaning.
- Always unplug before relamping. Replace bulb with same type rated 15 Watt.

### **WARNING - To reduce the risk of burns, fire, electric shock, or injury to persons:**

- Do not allow to be used as a toy. Close attention is necessary when this sewing machine is used by or near children and infirm persons.
- Use this sewing machine only for its intended use as described in this manual. Use only attachments recommended by the manufacturer as contained in this manual.
- Never operate this sewing machine if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water. Return the sewing machine to the nearest authorized dealer or service center for examination, repair, electrical or mechanical adjustment.
- Never operate the sewing machine with any air openings blocked. Keep ventilation openings of the sewing machine and foot controller free from the accumulation of lint, dust, and loose cloth.
- Keep fingers away from all moving parts. Special care is required around the sewing machine needle and blades.
- Always use the proper needle plate. The wrong plate can cause the needle to break.
- Do not use bent needles.
- Do not pull or push fabric while stitching. It may deflect the needle causing it to break.
- Switch the sewing machine off ("0") when making any adjustment in the needle area, such as threading needle, changing needle, threading bobbin, or changing presser foot, etc.
- Always unplug sewing machine from the electrical outlet when removing covers, lubricating, or when making any other user servicing adjustments mentioned in the instruction manual.
- Never drop or insert any object into any opening.
- Do not use outdoors.
- Do not operate where aerosol (spray) products are being used or where oxygen is being administered.
- To disconnect, turn all controls to the off ("0") position, then remove plug from outlet.
- Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.

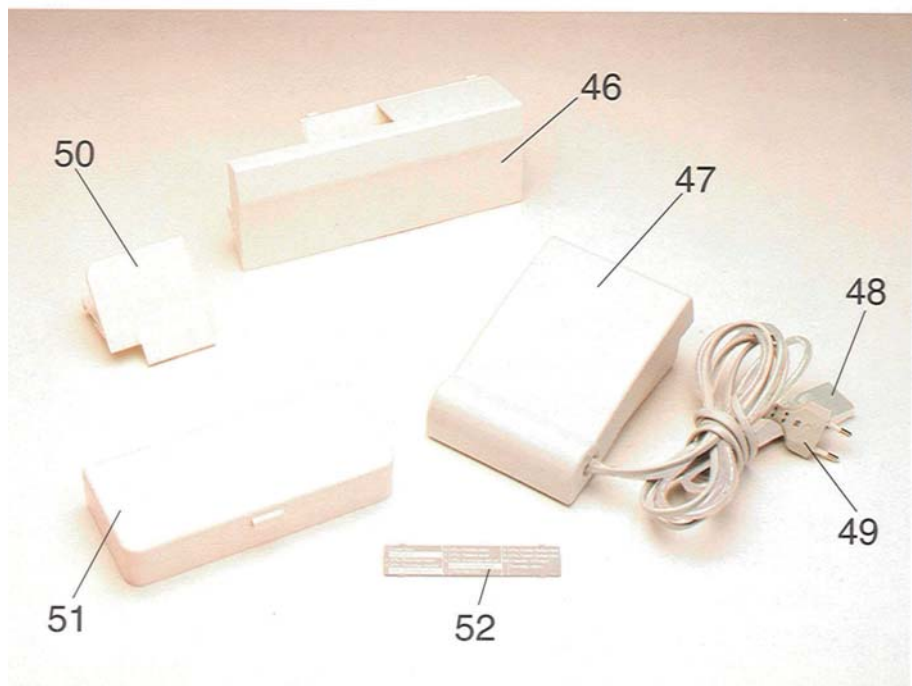
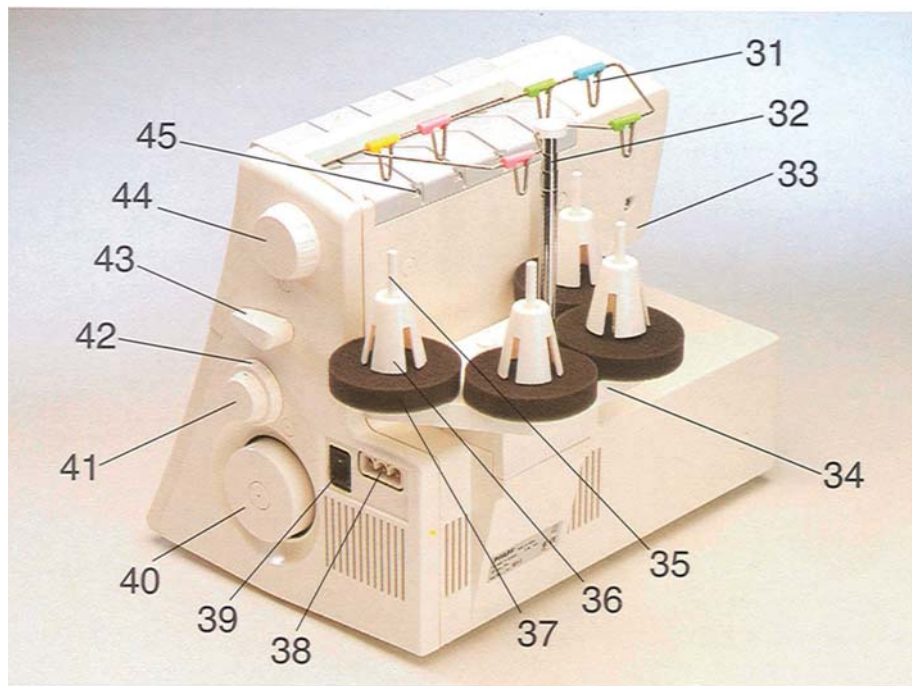
## **SAVE THESE INSTRUCTIONS**





## Parts of the coverlock 4862

- (1) Upper thread tension
  - (2) Upper thread tension
  - (3) Carry handle
  - (4) Thread tension/upper looper thread
  - (5) Thread tension/lower looper thread  
Two-thread chainstitch looper thread
  - (6) Program display
  - (7) Looper cover
  - (8) Blade guard
  - (9) Looper disengaging lever
  - (10) Standard presser foot
  - (11) Needle plate
  - (12) Swivel plate
  - (13) Adjusting knob for seam width
  - (14) Seam Width viewing window
  - (15) Needle holder
  - (16) Sewing light cover
  - (17) Adjusting knob for the presser foot pressure
- 
- (18) Upper overedge looper
  - (19) Lower overedge looper
  - (20) Two thread chainstitch looper
  - (21) Threading aid for the two thread chainstitch looper
  - (22) Swiveling stitch width latch
  - (23) Movable upper blade
  - (24) Fixed lower blade
  - (25) Clamp spring for serging thread chains
  - (26) Needle plate disengaging lever
  - (27) Handwheel for lowering the upper blade
  - (28) Converter
  - (29) Tweezers
  - (30) Allen key



## Parts of the coverlock 4862

- (31) Thread guides with color coding
- (32) Telescopic thread guide
- (33) Thread chain cutter
- (34) Thread spool stand
- (35) Thread spool pin
- (36) Thread spool centering piece
- (37) Spool disc
- (38) Machine socket, foot control with power cord
- (39) Electrical Power Master switch
- (40) Handwheel
- (41) Regulator wheel
- (42) Stitch length adjustment knob
- (43) Presser foot lifter
- (44) Program selector knob
- (45) Rear thread guides

- (46) Trimming waste box
- (47) Foot control
- (48) Foot control plug for machine
- (49) Power plug
- (50) Power table
- (51) Accessory box
- (52) Sewing program card  
(place in frame provided underneath  
the program display **(6)**)



## Simple, up-to-date sewing

Congratulations! You have bought a high-quality product that provides unique advantages. Your new **coverlock 4862** can take any material in its stride and will sew for you through thick and thin.

Your PFAFF coverlock features the very latest in design and technology, and it is just as easy to use as this instruction manual is to follow.

The very latest in design and technology is just as easy to use as this instruction manual is to follow.

If you now take a bit of time to study the instruction manual nothing can go amiss.

It is certainly time well spent, since it is the only way to find out just what your machine can do and put it to full use.

If you have any further questions, just ask your PFAFF dealer. He is happy to be of service with any help or advice.

So now let's get started! We wish you many enjoyable hours creating your very own fashion ideas.

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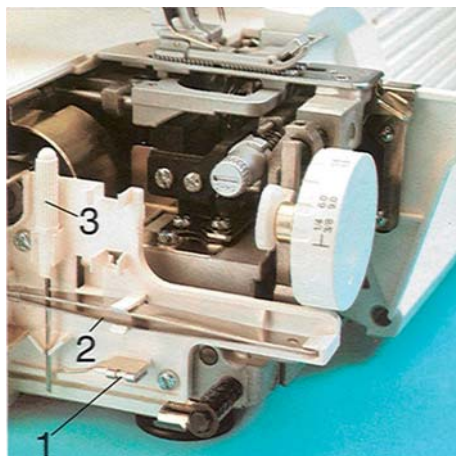
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### Accessory box

Open the accessory box (51) by gently pressing the bottom of the box inwards. The following accessories can be found in the box:

- 1 Overlock needle system EL X 705, cat. no. 2002
- 2 Spool nets (4 off)
- 3 Thread unreeling disc (4 off)
- 4 Screw driver
- 5 Needle threader
- 6 Wrench
- 7 Needle changing aid
- 8 Upper blade
- 9 Clip-on thread guide
- 10 Transparent presser foot (F) for cover stitch and two-thread chainstitch
- 11 Machine oil
- 12 Cleaning brush



### Further accessories

The following accessories can be found behind the swivel plate (12):

- 1 Converter
- 2 Tweezers
- 3 Allen key



### Machine cover

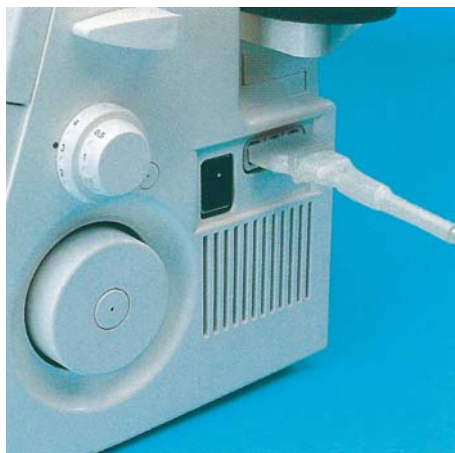
The machine cover protects the machine from dust and dirt. When the sewing process is finished, push the telescopic thread guide (32) together. The spool stand (34) must be pushed to its full extent into the machine, regardless of whether a spool is attached. Now you put the machine in its cover. The instruction manual and accessories can be stored in the accessory compartments.



### Connecting the foot control

Plug the foot control plug into the connecting bush (38) of the machine and the plug socket. The **sewing speed** is regulated by activating the foot control. You may also regulate the **sewing speed** by adjusting the slide on the front side of the foot control.

Setting ► = half of final speed  
 Setting ◄◄ = full final speed



### Master switch

When you turn on the master switch (39), the sewing lamp is illuminated. The machine is now operational.

Foot controls to be used:  
 AE040 - EU  
 AE044 - Australia  
 AE046 - United Kingdom  
 AE043 - USA/Canada

### Notes on safety

This appliance has a polarized plug (one blade wider than the other). To reduce the risk of electric shock, this plug is intended to fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not modify the plug in any way.

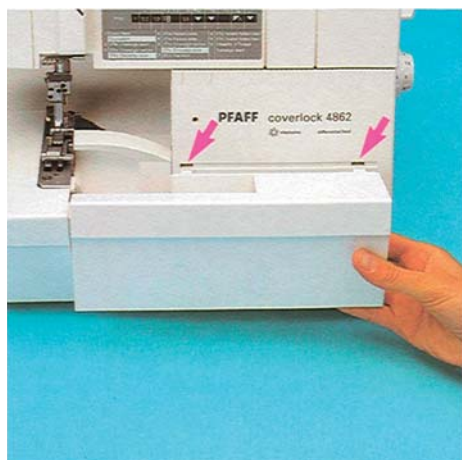


### Looper cover

Push the looper cover (7) fully to the right and then swivel it down. Four types of stitches and their threading paths are portrayed in color on the inside of the looper cover.

### Note

The **electricity supply** of the machine is **cut off** as soon as the **looper cover or swivel plate is opened for safety reasons**, i.e. sewing with the machine is no longer possible.



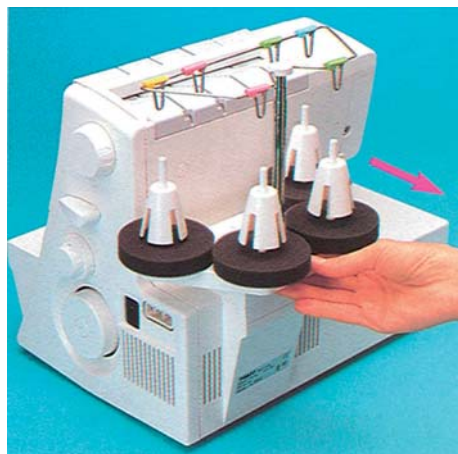
### Trimming waste container

Insert the upper latch of the trimming waste container (46) into the upper slot of the hook cover (7).



Apply pressure to the lower part of the container until the lower latches click into place in the lower slots of the looper cover.

To remove the trimming waste container, repeat this procedure in the reverse order.



### Spool holder

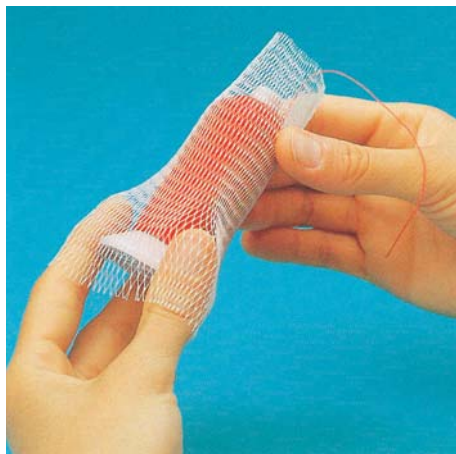
Before mounting spools you must pull the spool holder (34) back fully.



### Telescopic thread guide

Pull the telescopic thread guide (32) upwards.

To ensure optimum thread feed, turn the telescopic parts slowly until you hear the locking balls then click into place.



### Spool net

With synthetic threads which unwind too quickly from the spool, pull the spool net accessory (in the accessory box) over the spool from below. Now you can mount the spool on the spool holder.



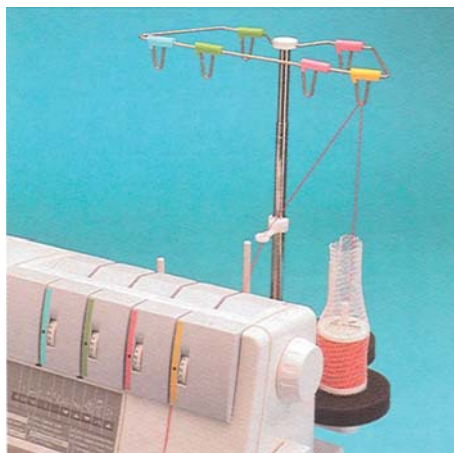
### Thread unreeling disc

The thread unreeling disc (in the accessory box) is used for small spools. Place the spool on the spool pin (35) and fit the thread unreeling disc using the spool disc (37).



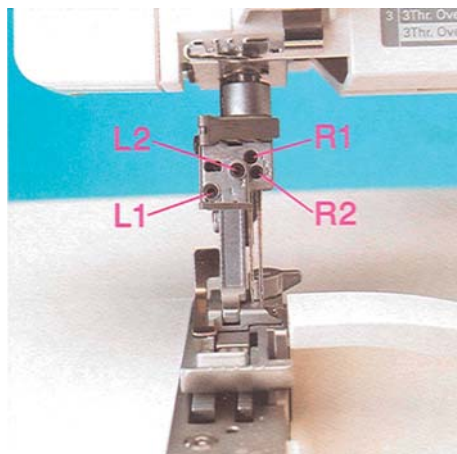
### Spool disc/Spool centering piece

It is advantageous to use the spool disc (37) when sewing with large spools (5,000 – 10,000 m). To do this, mount the spool centering piece (36) on the spool pin (35). With synthetic threads, the spool discs take up any play or surplus in the thread and guarantee excellent thread feed.



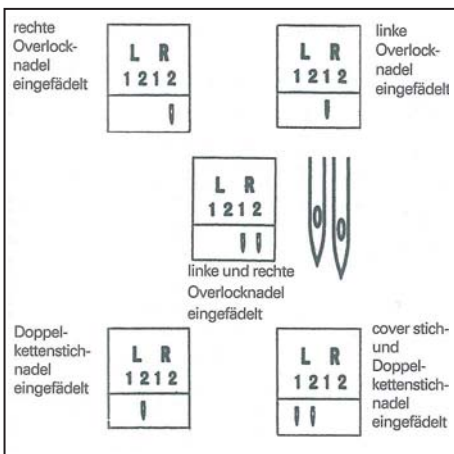
### Clip-on thread guide

Use the clip-on thread guide accessory when sewing with decorative thread. Mount this onto the telescopic thread guide (32) and thread the machine as shown in the drawing. Use the spool net and the spool disc.



### Needle position

This machine has four different needle positions and can sew with a maximum of two needles at any one time. The needle positions concerned are L1, L2, R1 and R2. The fastening screw is in each case above the needle. – The different needle positions are depicted in a schematic drawing of the needle holder which you will



find in the instruction manual. Also refer to the examples above. There are 5 needle combinations available for the 13 sewing programs. Mount the needles as shown on the program display.

**Note:** When both left and right overlock needles are fitted, the needle on the left will be slightly higher than the needle on the right.

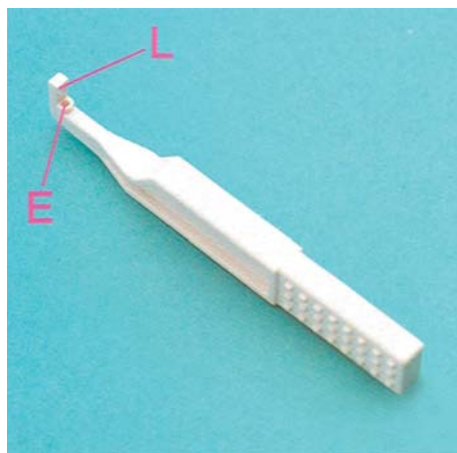


## Changing the needle

Switch off the electrical power.

### To remove:

Lower the presser foot and move the needle(s), by turning the hand wheel, into the highest position. Push the needle changing aid accessory from below upward fully over the needle. Loosen the fastening screws (without removing them) of the needle with the Allen key and pull the needle down to remove.

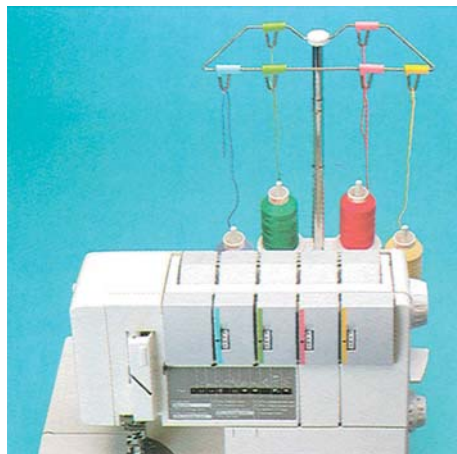


### To insert:

Insert the needle into the hole (E) of the needle changing aid, so that the flat needle shank (K) faces the flat side (L) of the aid accessory. Now insert the needle fully into the holder and tighten the fastening screws. Remove the needle changing aid.



Overlock needle types **EL x 705**, **cat. no. 2002** are required for this machine.

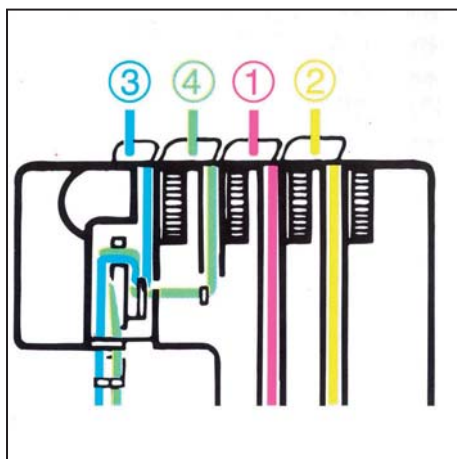


### Threading the thread guides

Mount the spools on the spool pins (35). You will find information on the spool net, thread unreeling disc, spool disc and spool centering piece on pages 9 and 10. Thread through the thread guides (31) from the back to the front following the colored threading paths.

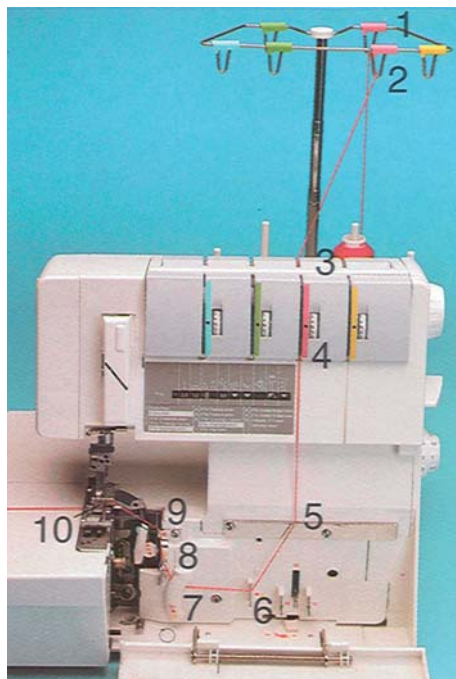


Push the carry handle (3) upwards. Thread through the underside of the carrying handle and through the rear thread guides (45) using both hands to pull the thread down until it slips under the thread guide. Now guide the thread through the tension discs and pull it down until it is positioned between the tension discs. Return the carrying handle to its original position.



### Note

Thread in a sequence of 1 to 4.

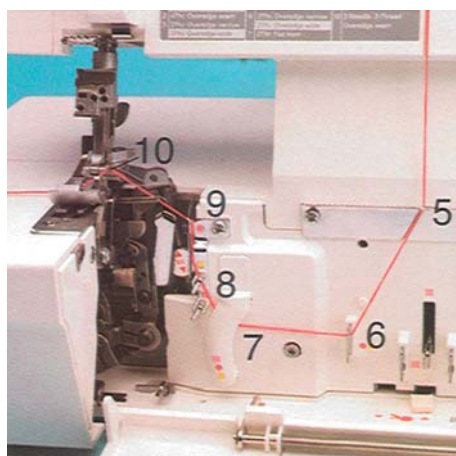


### Threading the upper overedge looper (pink)

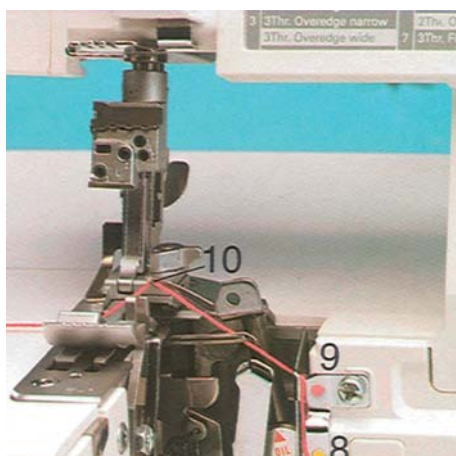
Turn the handwheel towards you until the upper overedge looper (18) is in its highest position. Thread in a sequence of 1 to 10.

#### Note

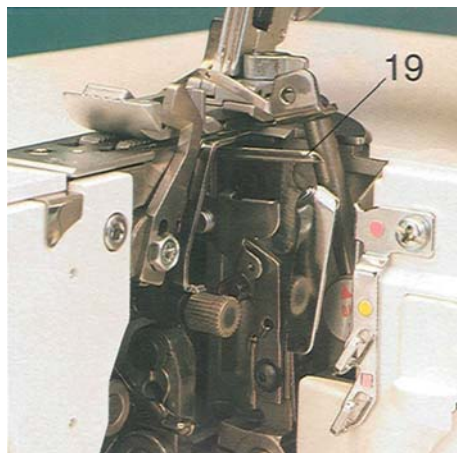
To make this task easier, use the tweezers which can be found behind the swivel plate.



Thread through the thread guides 1 to 9, which are marked with a pink dot.

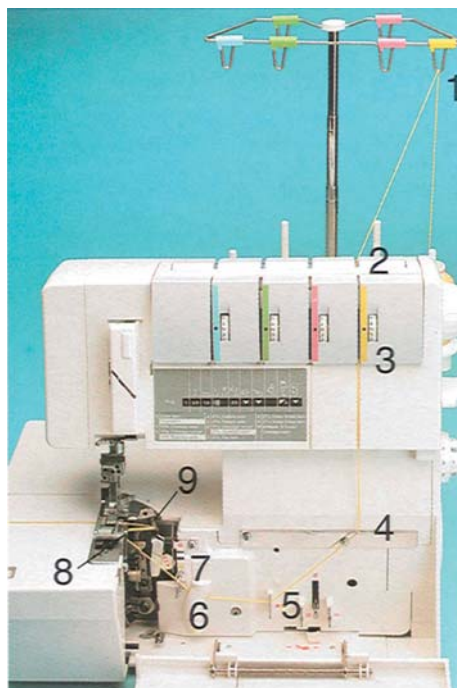


Thread from the front through the eye of the upper overedge looper 10. Pull approximately 10 cm of thread through the looper and place it to the left under the presser foot.



**Threading the lower overedge looper (yellow)**

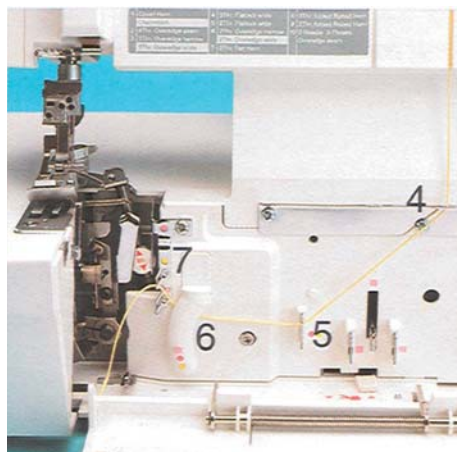
Turn the handwheel towards you until the lower overedge looper (19) is on the extreme right.



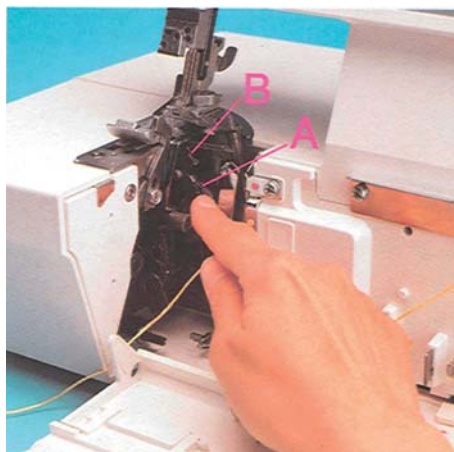
Thread in a sequence of 1 to 9.

**Note**

To make this task easier, use the tweezers which can be found behind the swivel plate.



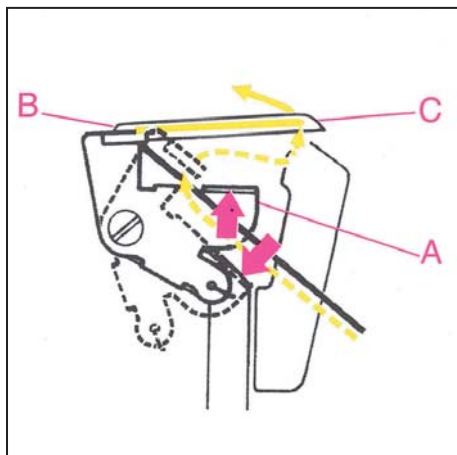
Thread through the thread guides 1 to 7, marked yellow.



Press the lever (A) downwards and hook the thread into the guide (B). Please also refer to the drawing below.

#### Note

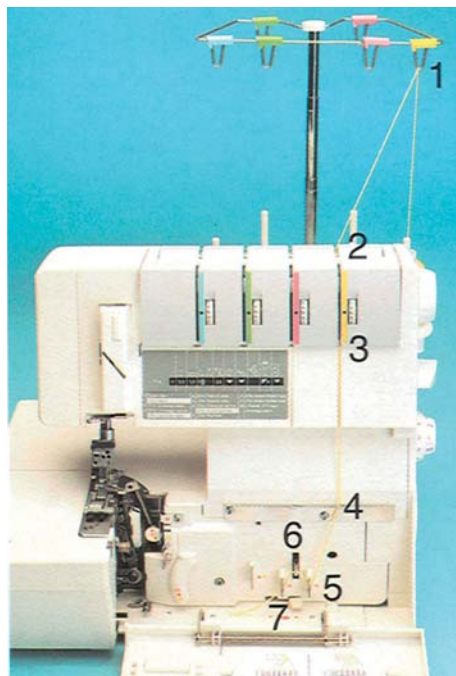
The lever returns automatically to its position as soon as you start sewing.



Thread from the front through the eye of the lower overedge looper (C) (= threading point 9).



Pull approximately 10 cm of thread through the looper and place it to the left under the presser foot.



### Threading the two-thread chainstitch looper (yellow) (Program 1)

Turn the handwheel towards you until the two-thread chainstitch looper (20) is on the extreme right.

Thread through the thread guides 1 to 7. The thread guides in the looper cover are marked with a pink square.

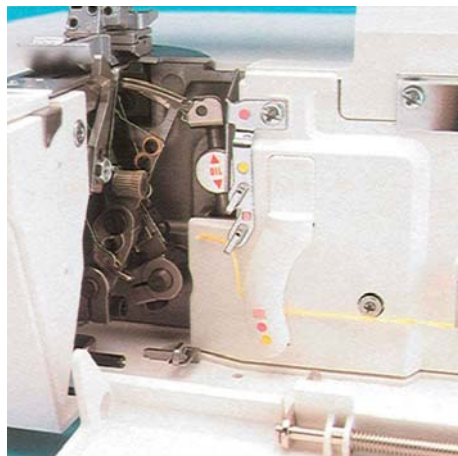
#### Note

To make this task easier, use the tweezers which can be found behind the swivel plate.



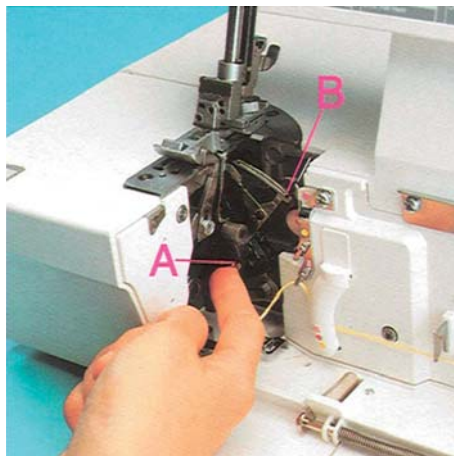
### Threading path for cover stitch

Thread the machine as shown in the picture.



### Threading path for the two-thread chainstitch

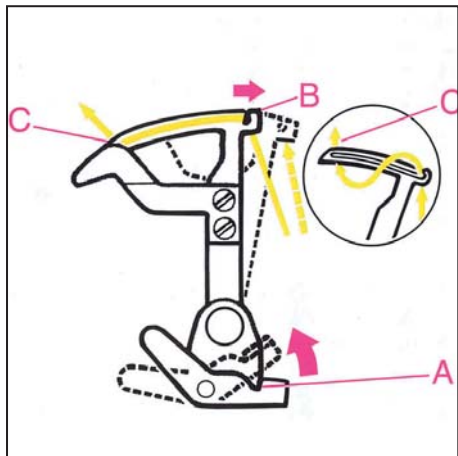
Thread the machine as shown in the picture. The thread guides are marked with a pink square.



### A further threading path for cover stitch and two-thread chainstitch

Press the lever (A) upwards and hook the thread into the slot (B). Also refer to the drawing below.

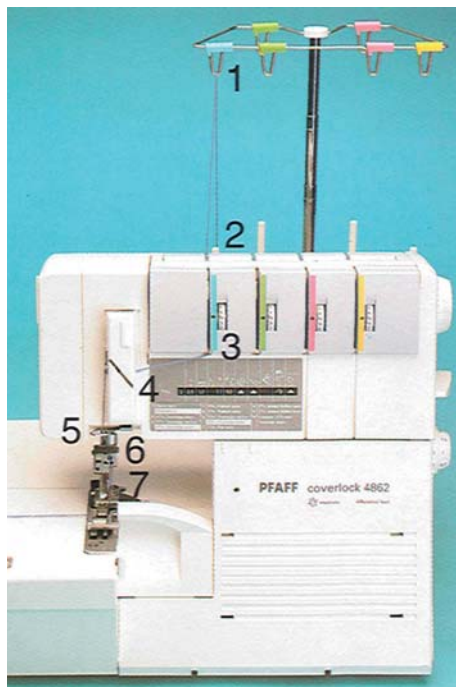
**Note:** The lever returns automatically to its position as soon as you start sewing.



Thread from the front through the eye of the two-thread chainstitch looper (C).



Pull approximately 10 cm of thread through the looper and place it to the left under the presser foot.



## Threading the needle(s)

Thread in a sequence of 1 to 7.

### Note

To make this task easier, use the tweezers which can be found behind the swivel plate.



The thread must be guided through the lower slot of the thread guide 4.



Pull approximately 10 cm of thread through the needle eye and place it to the left under the presser foot.



**Exception:**

**Threading the needle L<sub>2</sub> when sewing a two-thread chainstitch**

Thread in a sequence of 1 to 8.

**Note**

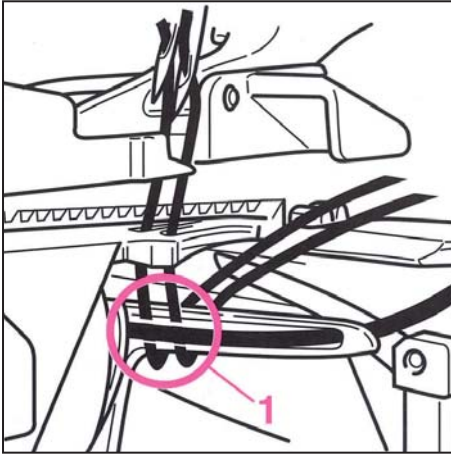
To make this task easier, use the tweezers which can be found behind the swivel plate.



The thread must be guided through the upper slot of the thread guide 5.

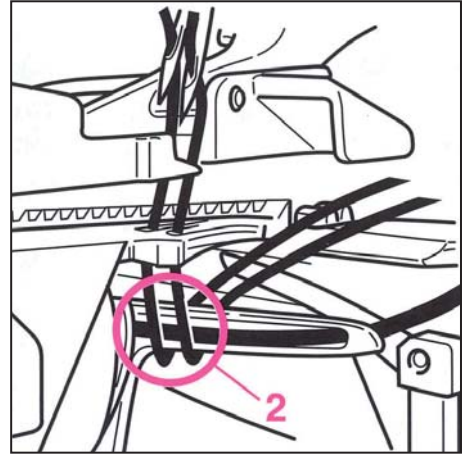


Pull approximately 10 cm of thread through the needle eye and place it to the left underneath the presser foot.

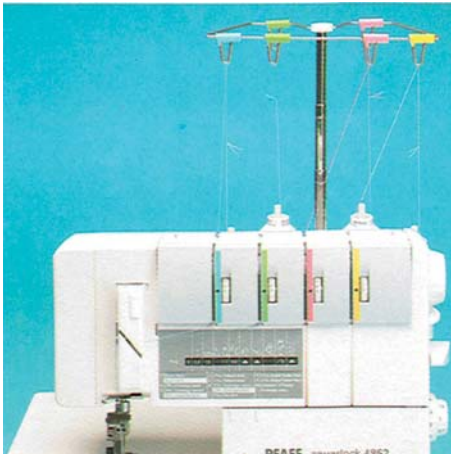


### Important note on threading

The needle(s) must always be threaded last so that the needle threads do not run under the looper thread as seen in drawing 1, but instead over the looper thread as depicted in drawing 2. Should this sequence not be followed, thread breakage or missed stitches can occur.



If the looper threads break, you must pull the needle threads out of the needle, rethread the looper thread and then rethread the needle threads.



### Changing a spool on a threaded machine

Cut the threads off close to the spool and mount new spools. Tie together the threads which are still in the machine with the new threads, and pull the threads out of the needles. Raise the presser foot. Pull on the needle threads until the knots are about 6 inches (15 cm) past the last thread guide in front of the needles. Cut the knots off and pull the threads through the respective needle eyes. The looper threads can be pulled continuously past the looper eye and placed to the left underneath the presser foot.



### **Needle threader**

Move the needle(s) into the highest position and lower the presser foot. Place the thread from right to left in notch (A) of the needle threader (to be found in the accessory box). One of the two triangles must point upwards.

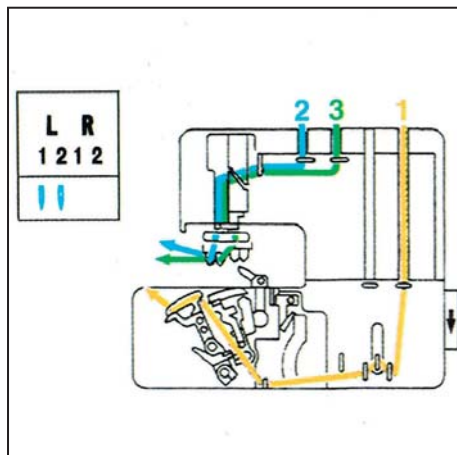


Place the needle threader onto the front groove of the needle. Slide the needle threader down to the needle eye and press it lightly against the needle.

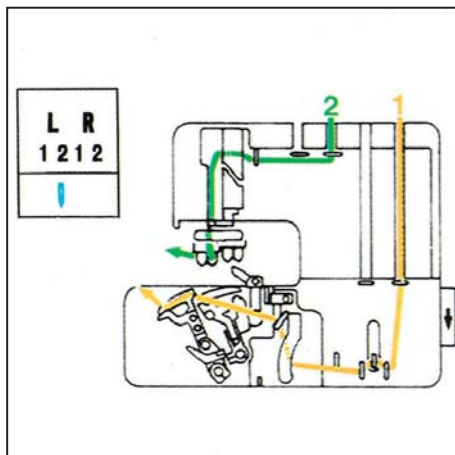


Thus a small metal pin is pushed through the needle eye and the needle is automatically threaded. Thread loops must be pulled to the back.

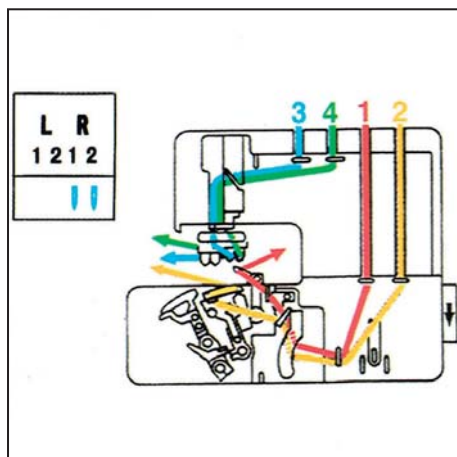
Overview of the threading paths and threading sequence



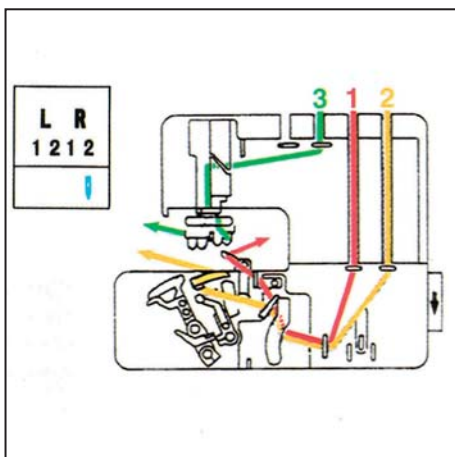
Program 1: cover stitch



Program 1: two-thread chainstitch



Program 2: four-thread overedge

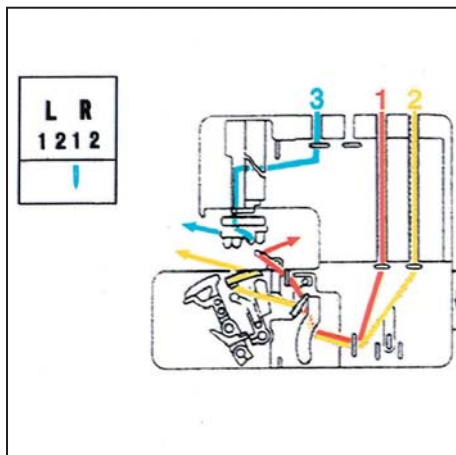


Program 3:  
narrow three-thread overedge

Program 7:  
three-thread rolled hem

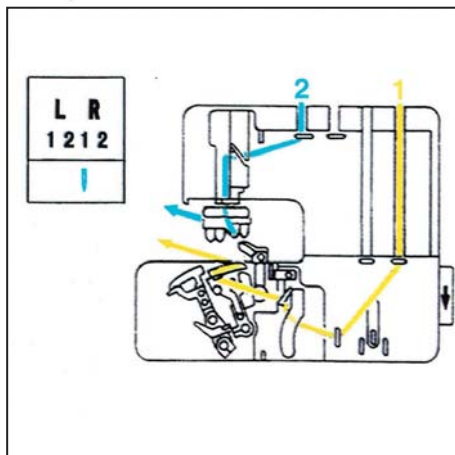
Program 8:  
folded thread-thread rolled hem

## Overviews of the threading paths and threading sequence



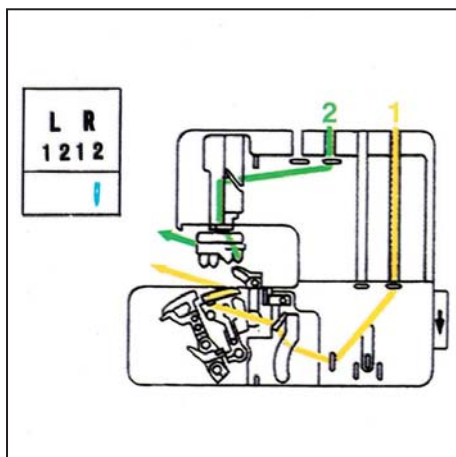
**Program 3:**  
wide three-thread overedge

**Program 4:**  
wide three-thread flatlock



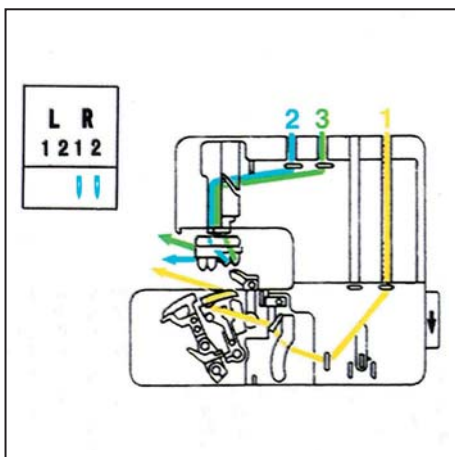
**Program 5:**  
wide two-thread flatlock

**Program 6:**  
wide two-thread overedge



**Program 6:**  
narrow two-thread overedge

**Program 9:**  
folded two-thread rolled hem



**Program 10:**  
two-needle triple thread closing seam



### Presser foot lifter

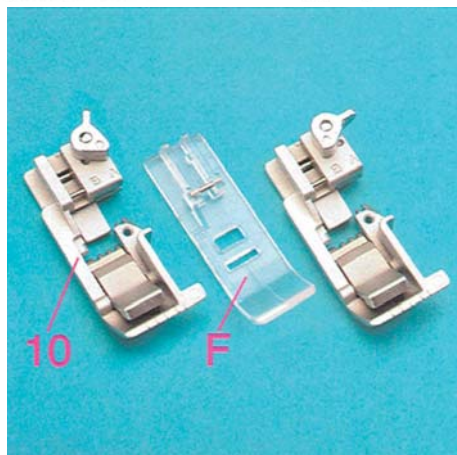
You can raise and lower the presser foot with the presser foot lifter (43). A maximum presser foot clearance of 6,5 mm can be achieved for thick fabrics by additionally pressing the presser foot lifter back.

### Note

The thread tensions are released when the presser foot lifter is in the upper position.



Once a thread chain has been created, the presser foot lifter no longer needs to be raised if you continue working with the same thread and presser foot. It is sufficient to gently lift the presser foot using your thumb. Now slide the fabric under the raised part of the presser foot. The fabric is automatically taken up and fed into the machine when you activate the foot control.

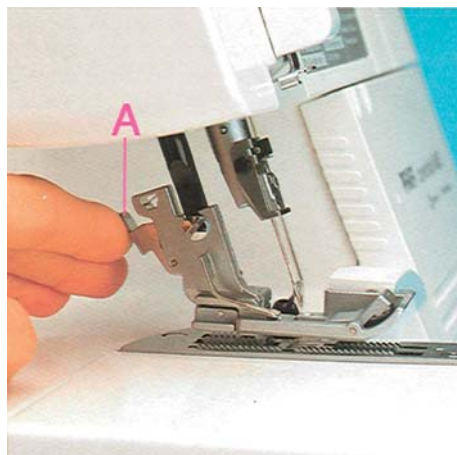


### Presser foot

When sewing with the standard presser foot (10), use the „A“ setting for the spring-loaded presser foot latch for the cover stitch and the two-thread chain-stitch (program 1).

The transparent presser foot (F) from the accessories can also be used.

For all other programs use the standard presser foot (10) and the „B“ setting for the spring-loaded presser foot latch.



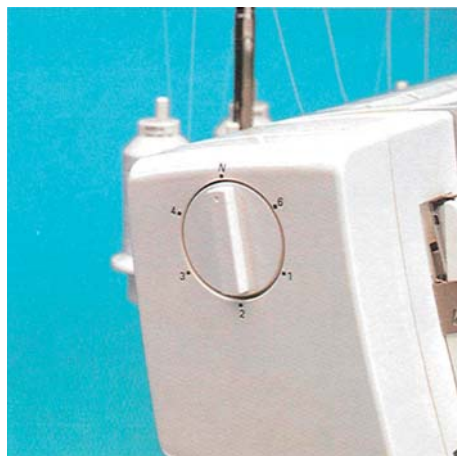
## Changing the presser foot

### Switch off the electrical power

**To remove:** move the needle(s) into the highest position by turning the hand-wheel. Raise the presser foot and press the lever (A) at the rear part of the presser foot holder. The presser foot is released automatically from the bracket and you can remove it to the left.

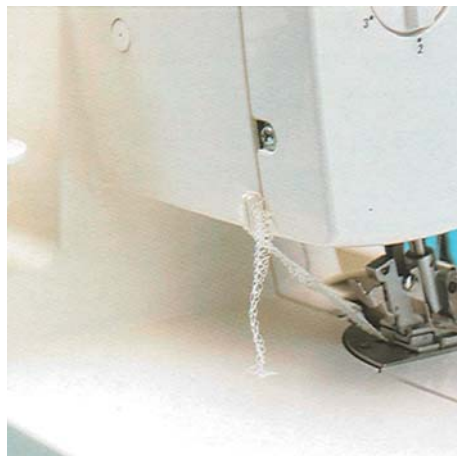
**To insert:** position the presser foot under the presser foot holder so that when the presser foot lever is lowered the pin in the foot is directly under the presser foot holder. Press lever (A). The presser foot now clicks into place.

**Check:** please raise the presser foot lever to check that the foot is properly secured.



## Presser foot pressure

The pre-set presser foot pressure on the machine is suitable for medium-heavy materials. The presser foot pressure does not need to be adjusted for most materials. If you are working with light or heavy materials then you may need to adjust the pressure. In this case, 6 setting positions are available which you can select using the adjusting knob for the presser foot pressure (17). The standard setting is "N".



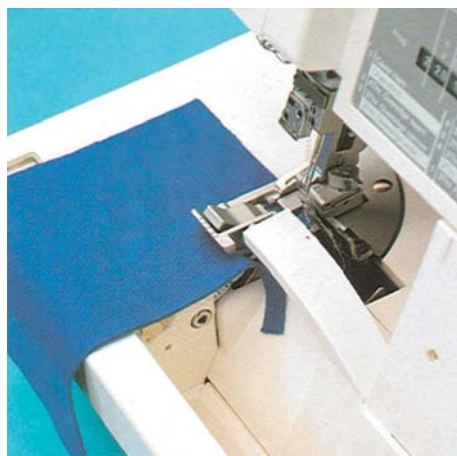
### Thread chain trimmer

After finishing the seam, sew an approx. 15 – 20 cm long thread chain. Pull the thread chain from the back to the front over the thread chain trimmer (33). This will cut off the thread chain.



### Clamp spring for serging thread chain 25

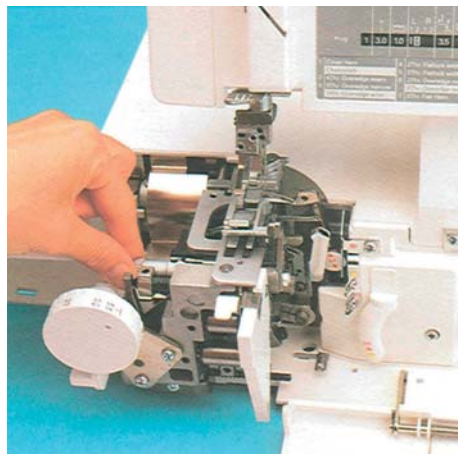
Using this feature you can serge the thread chain at the start of the fabric, by pulling it into the seam. Stitch off a minimum 10 cm long thread chain and raise the presser foot. Remove the thread chain carefully from the swiveling stitch width latch (22). Pull the thread chain forwards and clamp it under the spring.



Place the fabric right in front of the needle(s). If necessary, make an approx. 3 cm cut into the fabric along the cut-line using a pair of scissors. Lower the presser foot and start sewing. The thread chain pulls automatically into the inside of the seam.

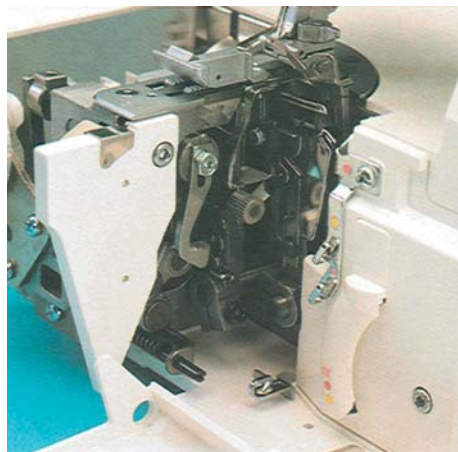
### Note

This feature cannot be used for either the two-thread chain stitch or for the rolled hem.



**Disengaging the upper blade**  
**Switch off the master switch**

Move the movable upper blade (23) into its highest position by turning the handwheel. Remove the trimming waste container and open the looper cover and the swivel plate. Now turn the handwheel fully to the right to lower the upper blade (27).

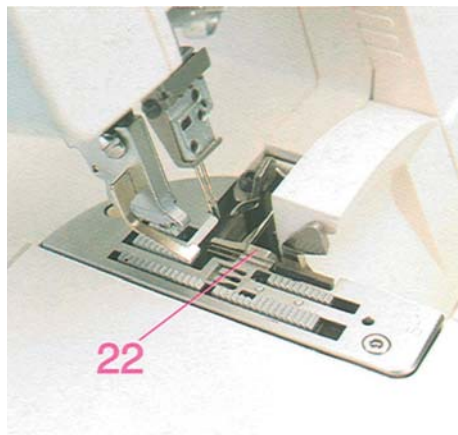


Turn the knob towards you until the upper blades clicks into place below. The upper blade is now disengaged.



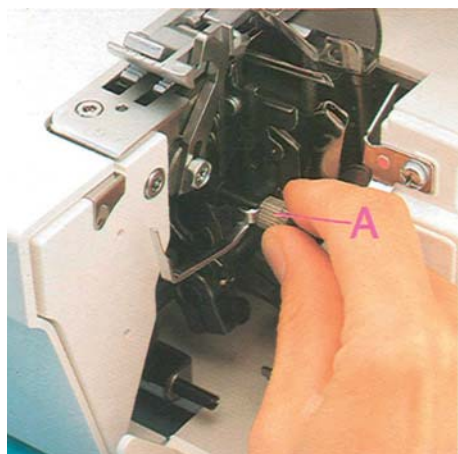
**Engaging the upper blade**

Push the knob for lowering the upper blade to the right and swivel back the blade until it clicks into the operating position again. Close the looper cover and the swivel plate and remount the trimming waste container.



**Swiveling stitch width latch  
For standard overlock seams:**

The swiveling stitch width latch (22) remains in the basic position when sewing all types of standard overlock seams (exception: program 1).

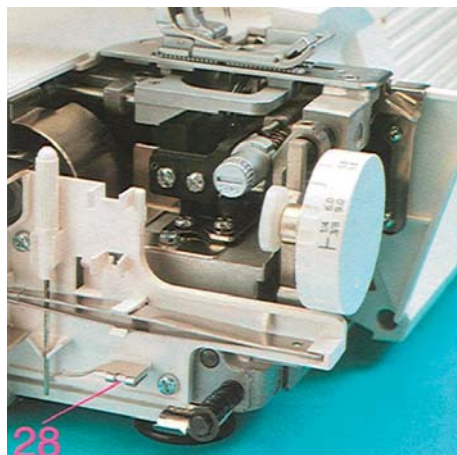


**For rolled hems:**

Pull the knob (A) to the right and swivel the swiveling stitch width latch (22) downwards.



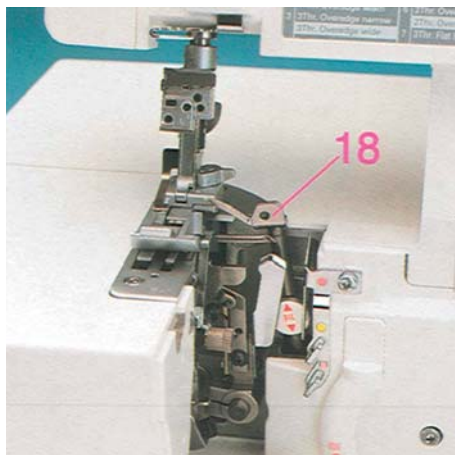
This setting allows you to sew all types of rolled hems.



### Fitting the converter

#### Switch off the electrical power

The converter (28) must be fitted for all two-thread seams (exception: Program 1, see page 32) and the two-needle triple thread closing seam. Open the swivel plate and remove the converter (28).



Move the upper overedge looper (18) into the highest position by turning the hand-wheel.



Push the tip of the converter into the eye of the upper overedge looper until it clicks into place and push the converter into the overedge looper bracket.

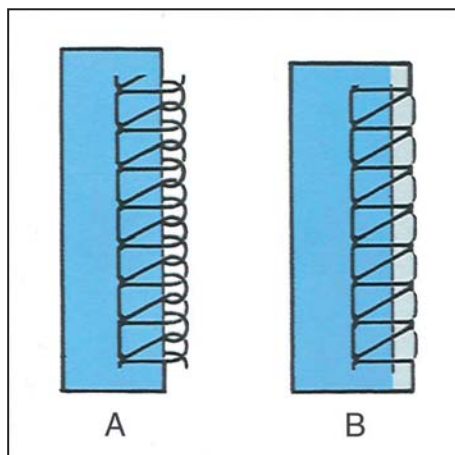


To remove the converter, remove the point of the converter from the eye of the upper overedge looper. You can now remove the converter upwards.



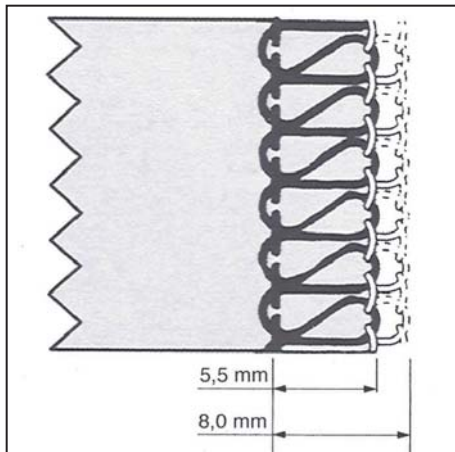
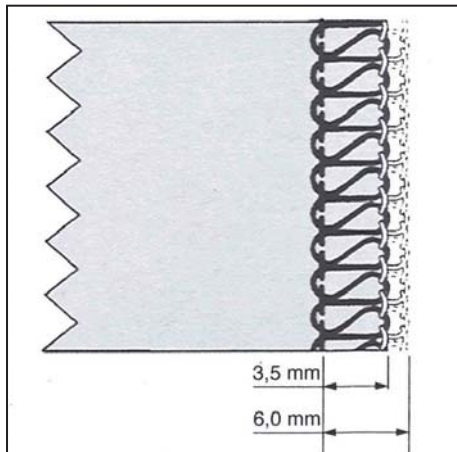
### Setting the seam width

The required seam width can be adjusted anywhere between 3.5 and 6 cm by turning the adjusting knob for seam width (13). The setting can be seen at the viewing window (14). The two-thread chain-stitch is sewn with a clearance of 6 to 9 mm.



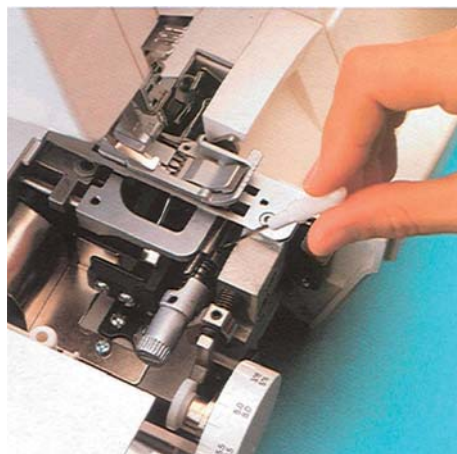
**Illustration A:** Should loops project out of the workpiece, move the movable upper blade (23) to the right by turning the seam width adjusting knob upwards.

**Illustration B:** Should the stitching be too tight, move the movable upper blade to the left by turning the seam width adjusting knob downwards.



### Note

The seam width settings 3.5 mm and 6.0 mm are only relevant for the right overedge needle R<sub>2</sub>. This set-value is increased by 2.0 mm when using the left overedge needle R<sub>1</sub>, i.e. you have a seam width which is completely adjustable from 5.5 mm to 8.0 mm.



### **Securing the upper blade**

#### **Switch off the master switch**

It is recommended to secure the movable upper blade (23) before sewing heavy fabrics. Raise the needle(s) to its highest position and open the swivel plate. Tighten the screw fully using the Allen key. This screw should always be slightly loosened again after sewing heavy fabrics.

#### **Note**

The seam width can no longer be adjusted once the upper blade is secured.

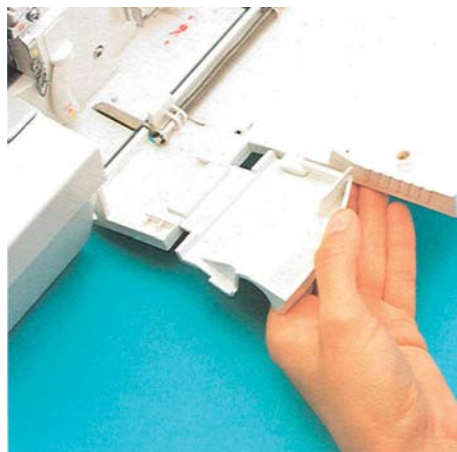


### **Adjusting the stitch length**

You can set the desired stitch length between 0.5 mm to 4.0 mm by turning the stitch length adjustment knob (42).

#### **Note**

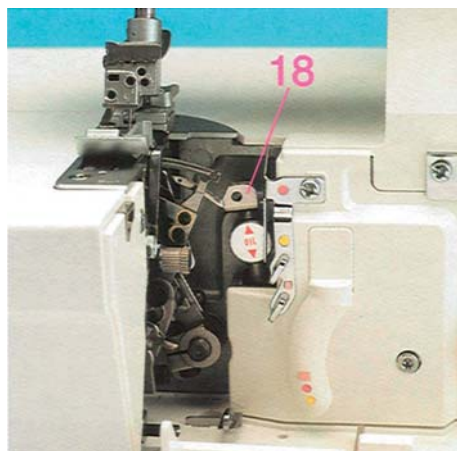
For the two-thread chainstitch, the setting should be 3 or higher.



**Program 1: adjusting the machine to the cover stitch and two-thread chainstitch**

This is only necessary if you do not want to trim the fabric edge. Insert the needle(s) according to the display (see page 11). Open the looper cover and remove the blade guard (8) upwards.

Lower the swiveling stitch width latch (see page 28) and disengage the upper blade (see page 27). Ensure that the upper blade is disengaged by turning the handwheel.

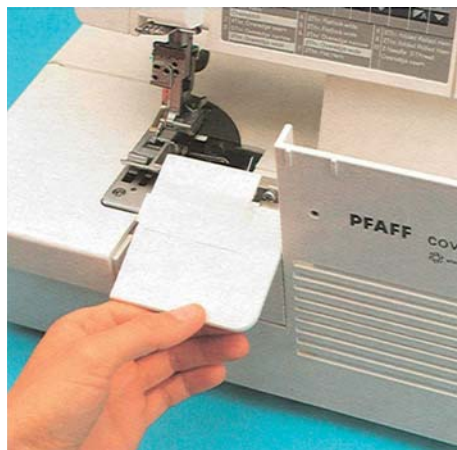


Disengage the upper overedge looper. Move the upper overedge looper (18) into its lowest position by turning the handwheel.



Move the looper disengaging lever (9) to the right. Ensure that the looper is disengaged by turning the handwheel.

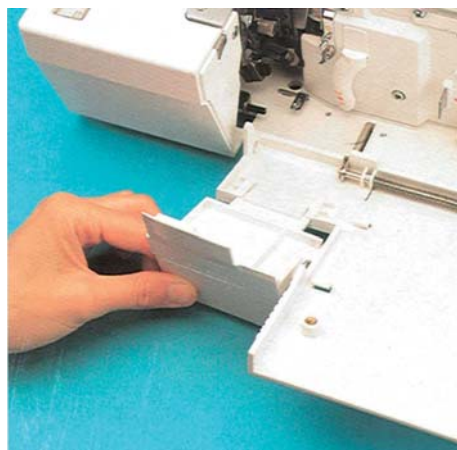
Thread the two-thread chainstitch looper (see page 16 and 17) and then the needle(s) (see page 18 and 19).



Press the power table (50) downwards into the designated slot.

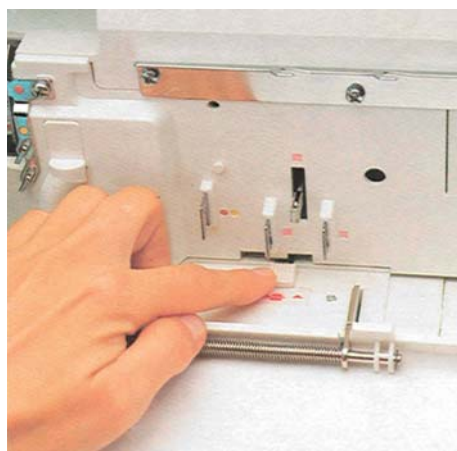
#### Note

Please ensure that the upper overedge looper is disengaged before mounting the power table (50).



After sewing, you can move the machine into the exit position like this:

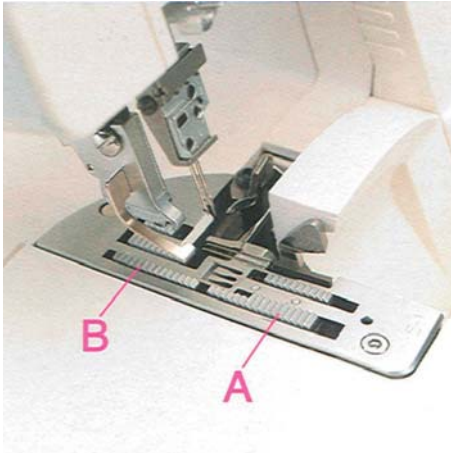
Open the looper cover and remove the power table. Move the upper overedge looper into its lowest position.



Move the looper disengaging lever to the right, thus re-engaging the upper overedge looper.

Bring the swiveling stitch width latch into the basic position (see page 28) and engage the upper blade (see page 27).

Push the blade guard into the looper cover and close it.



### Differential feed

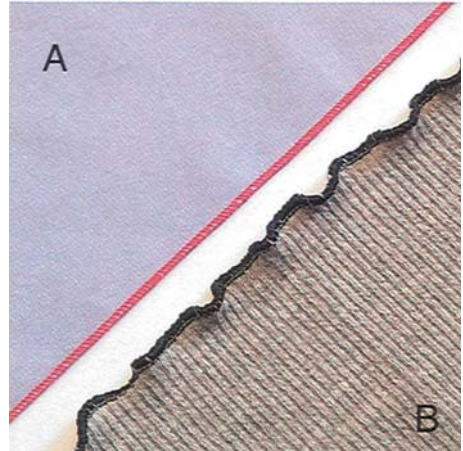
The differential feed consists of two feed dogs (**A + B**), one behind the other, which feed the fabric. The movement of the front feed dog (**A**) and thus the amount of material to be fed can be regulated using the regulator wheel (**41**). The setting range is between 0.5 and 2.0.

The **standard setting** is 1, where the movement of the front feed dog (**A**) is synchronized with the rear feed dog (**B**). This means that the front feed dog feeds the same amount of fabric as the rear feed dog.

**Note:** The function of the differential feed is dependent on the set stitch length and the type of fabric being used.



Set the regulator wheel for the differential feed (**41**) to 0.5. Here the front feed dog feeds half as fast as the rear feed dog. This means that the front feed dog feeds only half as much fabric as the rear feed dog, causing the fabric to **stretch**.



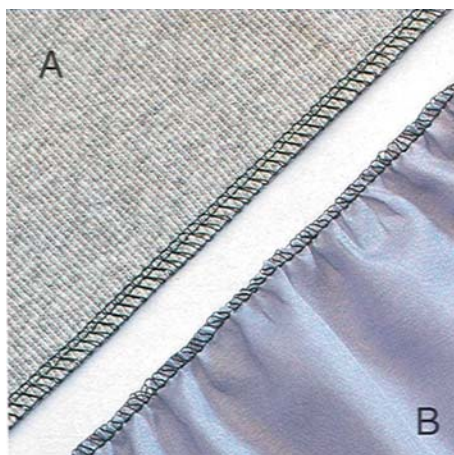
Here you will avoid ruffling in the seam when working with very light fabrics, such as silk and taffeta. Instead, a smooth seam (**A**) will be achieved.

You can also achieve fashionable effects with the differential feed dog, like for example the wavelike effect when using a rib knit (**B**).



Set the regulator wheel for the differential feed (41) to 2.0.

Here the front feed dog feeds twice as fast as the rear feed dog. This means that the front feed dog feeds twice as much fabric as the rear feed dog, causing the material to **gather**.

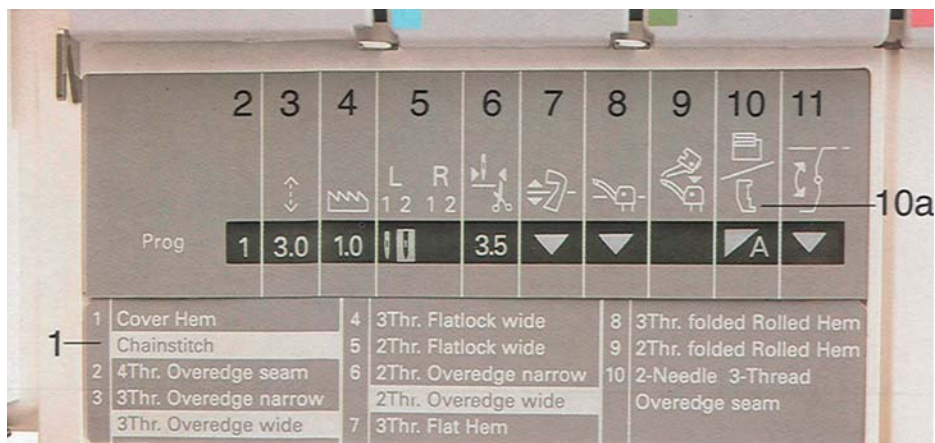


Here you will avoid stretching in the seam when working with knitwear, such as jerseys or gathered fabrics. Instead, a smooth seam (A) will be achieved.

You can also achieve fashionable effects with the differential feed dog, like for example the gathering effect when using very light fabrics (B).

The following table contains information on the differential feed settings. However, you should always test your setting first on a piece of scrap fabric.

Type of fabric/effect	Differential feed setting		
	gather >2.0	normal >1.0	stretch >0.5
<b>Very light fabrics:</b> silk, satin, poplin, taffeta, linings.		●	●
<b>Normal fabrics:</b> light and medium-heavy cottons, fine cords, thermal-wear.		●	
<b>Light knitwear:</b> jerseys, polo fabrics, cut-pile pullovers, tricot, fine knitwear and gathered materials.	●	●	
<b>Heavy knitwear:</b> sweatshirt fleece, heavy gathered materials, heavy knitwear.	●		
<b>Stretch – wavelike effect:</b> medium and light knitwear, jerseys, knitwear, ruffled sleeve and collar edges, skirt hems, dense stitch lengths.			●
<b>Gathering:</b> ruffling light materials and lace, seam allowances for curves, arches on blouses, shirts, skirts, round pockets, flaps, stretching or gentle ruffling of arched sleeves (shoulders), sleeve widths for cuffs or gathered fabrics.	●		



## Display

- 1 Sewing program card  
The sewing program card (52) provides an overview of the 13 selectable standard sewing programs for the coverlock 4862.
- 2 Program no.
- 3 Stitch length in mm
- 4 Differential feed
- 5 Needle position
- 6 Seam width in mm
- 7 Upper blade position  
▲ Upper blade engaged  
▼ Upper blade disengaged
- 8 Upper overedge looper position  
▲ Looper engaged  
▼ Looper lowered

- 9 Converter position  
 No display = without converter  
 With converter
- 10 Power table position  
 No display = without power table  
 With power table
- 10a Setting of the spring presser foot latch: A or B
- 11 Stitch width latch position  
▲ In the exit position  
▼ Stitch width latch lowered

**Note:** The programs 1, 3 and 6 all have 2 program possibilities. The background of the second program possibility is in each case highlighted in white on the sewing program card and the display.

**Example:** program no. 1 on the sewing program card is intended for the cover stitch as well as the two-thread chainstitch. The background of the two-thread chainstitch and the needle position is highlighted in white.

All other settings are identical to the cover stitch.



## Program selector knob

Using the program selector knob (44) you can select all 13 standard sewing programs of the coverlock 4862 and read the most important settings from the program display (6).



### Setting thread tensions

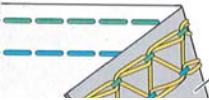

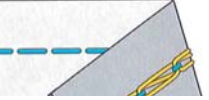
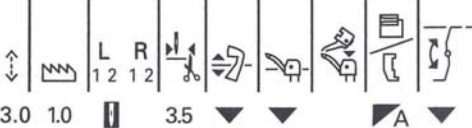


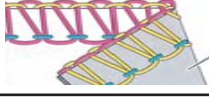
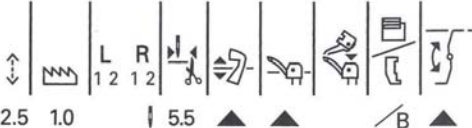
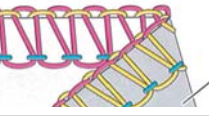

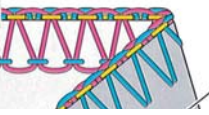
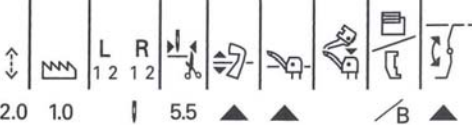
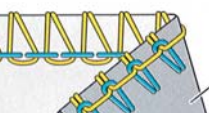
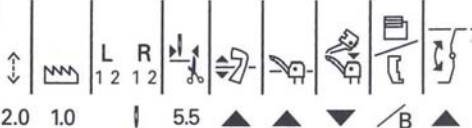
This machine offers automatic setting of the thread tension for each separate program.

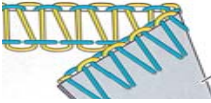
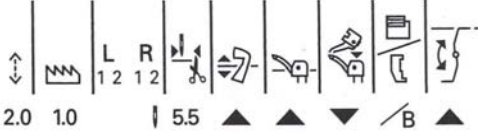
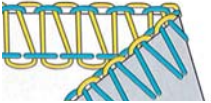
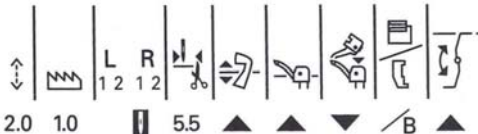

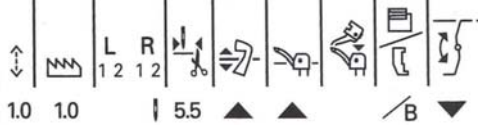
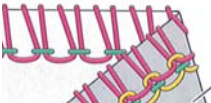
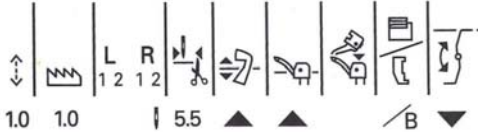
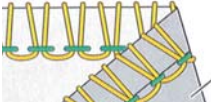
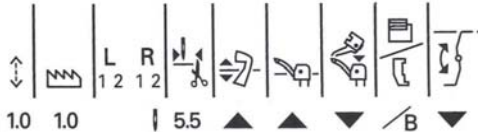
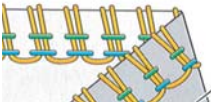
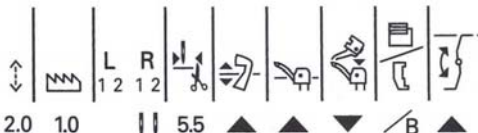
However as the type of material, thread quality and needle size vary and duly influence the seam, the setting of the thread tension may have to be adjusted. By turning the regulator discs either up or down, the thread tension may be tightened or loosened. The standard setting is "N".

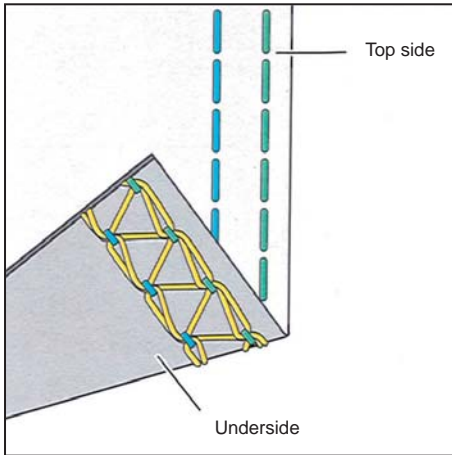
If the thread tension for a sewing program has been adjusted and a new program then selected, the program selector knob (44) automatically resets to the "N" position. This clears any fine adjustment of the sewing program just used.

**Note:** If the program selector knob is difficult to turn following fine adjustment of the thread tension, set all regulator discs to "N" and then select the new sewing program.

**Tip:** Always sew off a few stitches onto a piece of scrap fabric and check the thread knots. Correct the thread tension setting if necessary (see pages 40 – 52).

Program overview		
Program	Area of application	Display
<p>Program 1 cover stitch</p> 	Sewing hems and fancy stitches	 <p>3.0 1.0 1 1 3.5 ▼ ▼ ▽A ▼</p>
<p>Program 1 two-thread chainstitch</p> 	Joining padded fabrics and denim in each case without serging	 <p>3.0 1.0 1 1 3.5 ▼ ▼ ▽A ▼</p>
<p>Program 2 4-thread overedge</p> 	Joining and simultaneous serging of all fabrics, in particular elastic fabrics	 <p>2.5 1.0 1 1 5.5 ▲ ▲ /B ▲</p>
<p>Program 3 3-thread overedge (narrow)</p> 	Serging of light (easy fray) fabrics	 <p>2.5 1.0 1 1 5.5 ▲ ▲ /B ▲</p>
<p>Program 3 3-thread overedge (wide)</p> 	Serging of heavy (easy fray) fabrics	 <p>2.5 1.0 1 1 5.5 ▲ ▲ /B ▲</p>
<p>Program 4 3-thread flatlock (wide)</p> 	Joining elastic fabrics with a flatlock seam and decorative edges	 <p>2.0 1.0 1 1 5.5 ▲ ▲ /B ▲</p>
<p>Program 5 2-thread flatlock (wide)</p> 	Joining elastic fabrics with a flatlock seam	 <p>2.0 1.0 1 1 5.5 ▲ ▲ ▼ /B ▲</p>

Program overview		
Programs	Area of application	Display
<p>Program 6 2-thread overedge (narrow)</p> 	Serging light fabrics	 <p>2.0 1.0   L 1 2 R 1 2   ↓ 5.5 ▲ ▲ ▼ / B ▲</p>
<p>Program 6 2-thread overedge (wide)</p> 	Serging medium-heavy fabrics	 <p>2.0 1.0   L 1 2 R 1 2      5.5 ▲ ▲ ▼ / B ▲</p>
<p>Program 7 3-thread rolled hem</p> 	Serging light to medium-heavy fabrics. Decorative edges	 <p>1.0 1.0   L 1 2 R 1 2   ↓ 5.5 ▲ ▲ ▼ / B ▼</p>
<p>Program 8 3-thread rolled hem (folded)</p> 	Serging light to medium-heavy fabrics. Decorative edges	 <p>1.0 1.0   L 1 2 R 1 2   ↓ 5.5 ▲ ▲ ▼ / B ▼</p>
<p>Program 9 2-thread rolled hem (folded)</p> 	Serging very light fabrics. Decorative edges	 <p>1.0 1.0   L 1 2 R 1 2   ↓ 5.5 ▲ ▲ ▼ / B ▼</p>
<p>Program 10 2-needle, 3-thread closing seam</p> 	Joining and simultaneous serging of light, very elastic fabric	 <p>2.0 1.0   L 1 2 R 1 2      5.5 ▲ ▲ ▼ / B ▲</p>

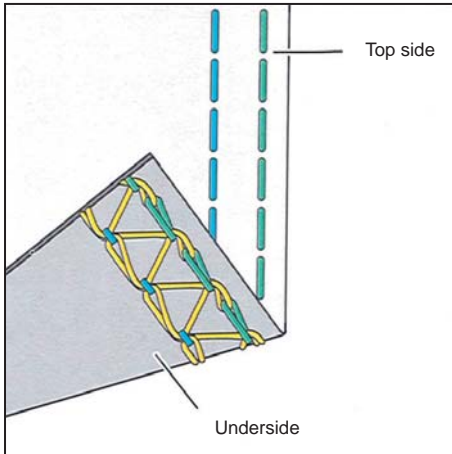


**Stitch formation correction measures**

**Cover stitch**

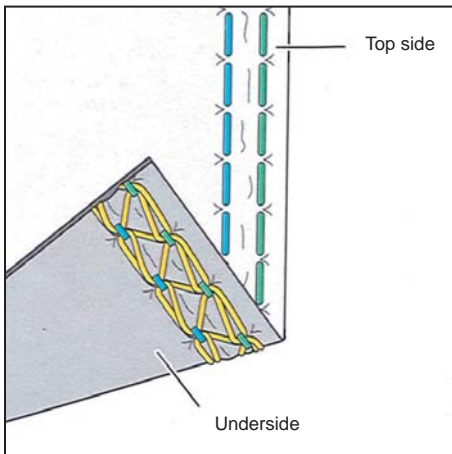
**Program 1**

When all tension units are correctly set, the needle threads (green and blue) are just slightly visible on the lower edge of the fabric. The looper thread (yellow) is situated loosely in between.



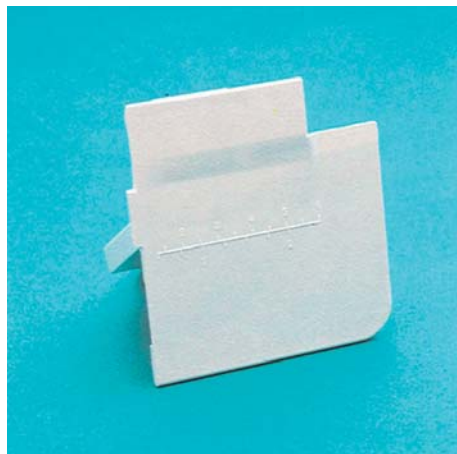
The right needle thread (green) is too loose.

Set the green thread tension to a higher value.



The needle threads (green and blue) are set too tightly causing folds in the fabric.

Set the green and blue thread tension units to a lower value.



### Important notes on sewing with the cover stitch

The power table is marked with various units of measurement. The upper figures are in cm. The lower figures are in inches.



Preparing the fabric: it is useful to under-press the fabric before hemming it. Depending on as to how wide the seam must be stitched down, you must under-press it 0.5 cm wider.

Example: the hem must be 3/4 inch (2 cm) wide, that means you have to under-press it one inch (2.5 cm) wide.

**Note:** Set the seam width at 3.5 cm.



To start sewing:

Raise the presser foot and place the fabric under the presser foot so that the needles pierce the fabric for the first stitch. Place the fabric onto the power table according to the width of the seam. When starting to sew, pull the fabric taut towards the rear and sew slowly, because the machine, when you start to sew, feeds the fabric slowly.

**Note:** In most cases the differential feed needs to be adjusted. Test your setting first on a piece of scrap fabric.



### Finishing sewing:

1. When sewing to the edge of the fabric:  
Hold the threads at the end of the seam tight and sew slowly off the fabric during which the thread should be pulled lightly towards the rear.

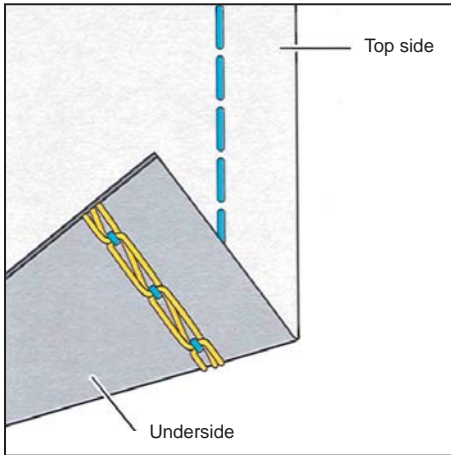


2. If you are not to sew to the edge of the fabric, e.g. by tubular fabrics:

Sew 4 – 5 stitches on top of each other. During the last stitch, turn the hand wheel towards you until the needles pierce the fabric and you have heard each needle click (just before the needles are in the lowest position).



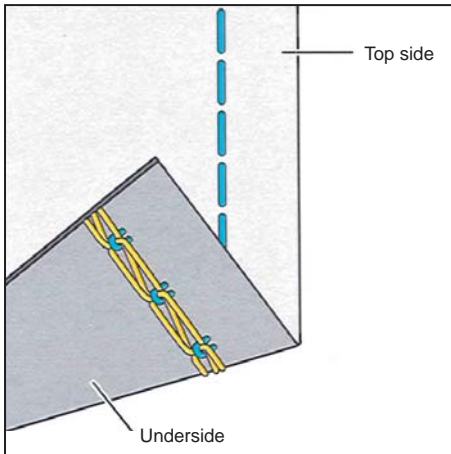
After the second „click“ turn the hand-wheel **back** until the needles are in the highest position. Raise the presser foot. Hold the threads at the end of the fabric tightly and remove the fabric. Cut the threads. Pull the needle threads downward and knot them.



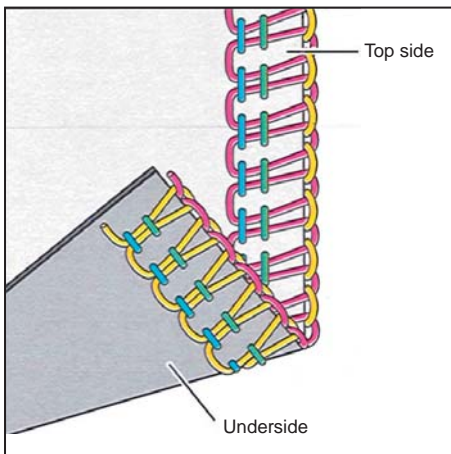
## Two-thread chainstitch

### Program 1

When all tension units are correctly set, the needle thread (blue) is just slightly visible on the lower edge of the fabric.



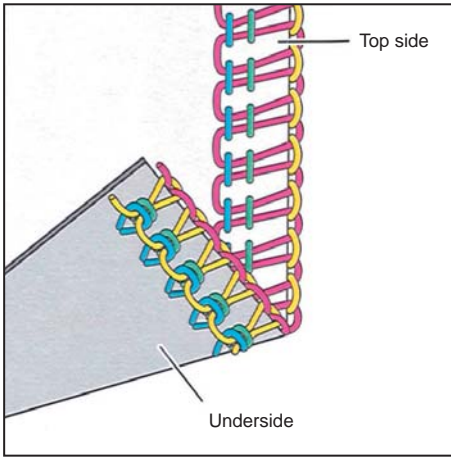
The right needle thread (blue) is too loose. Set the blue thread tension to a higher value.



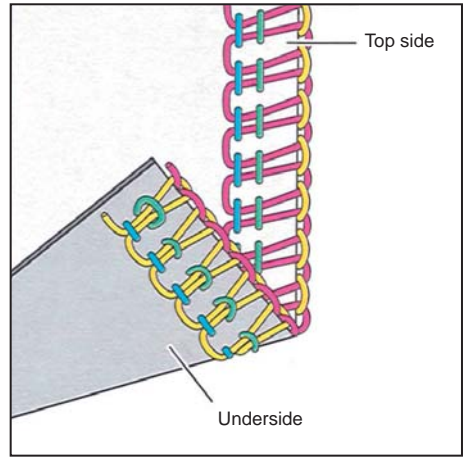
## 4-thread overedge seam

### Programm 2

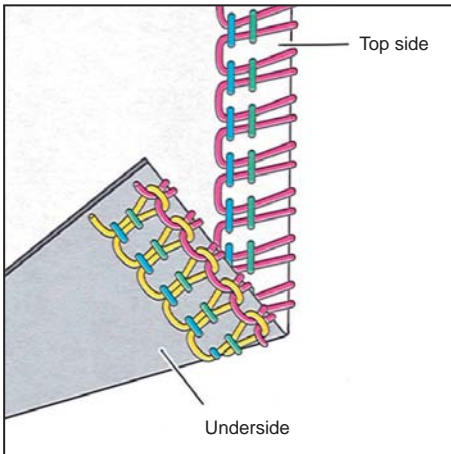
When all tension units are correctly set, the loops of both looper threads (pink and yellow) are directly on the edge of the fabric.



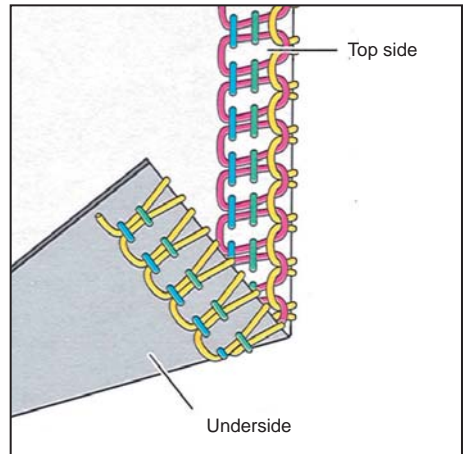
The **left needle thread (blue)** is too loose. Set the blue thread tension to a higher value.



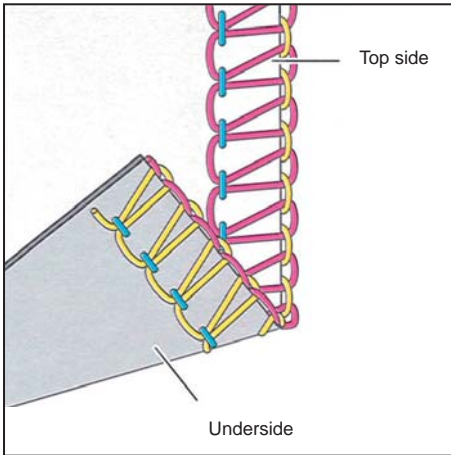
The **right needle thread (green)** is too loose. Set the green thread tension to a higher value.



The **upper looper thread (pink)** appears on the underside of the material. Set the pink thread tension to a higher value and/or the yellow thread tension to a lower value.

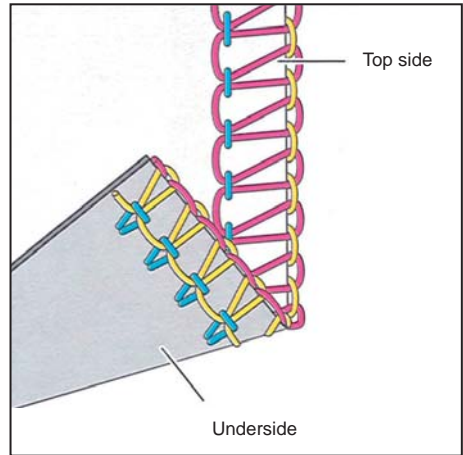


The **lower looper thread (yellow)** appears on the top side of the material. Set the yellow thread tension to a higher value and/or the pink thread tension to a lower value.

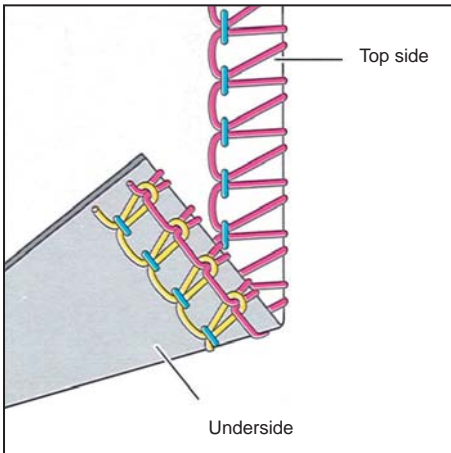


**3-thread overedge seam**  
**Wide and narrow**  
**Program 3**

When all tension units are correctly set, the loops of both looper threads (pink and yellow) are directly on the edge of the fabric.

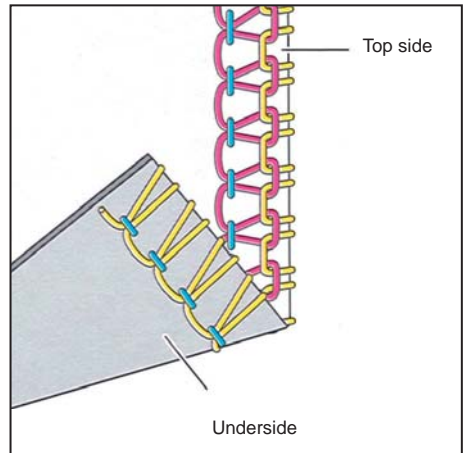


The **needle thread** is too loose.  
 Set the relevant needle thread tension to a higher value.



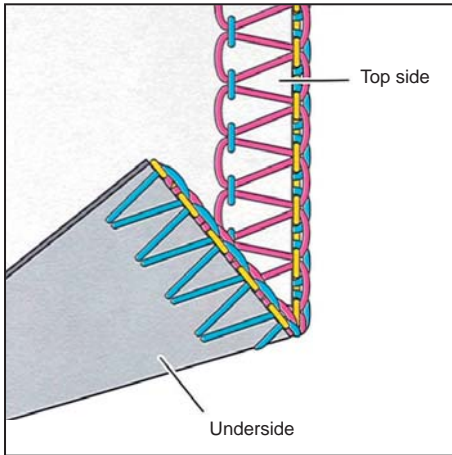
The **upper looper thread** (pink) appears on the underside of the material.

Set the pink thread tension to a higher value and/or the yellow thread tension to a lower value.

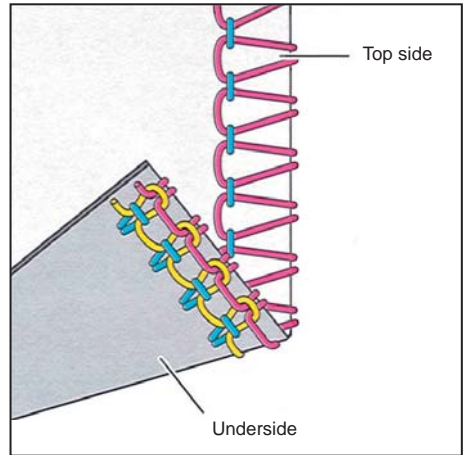


The **lower looper thread** (yellow) appears on the top side of the fabric.

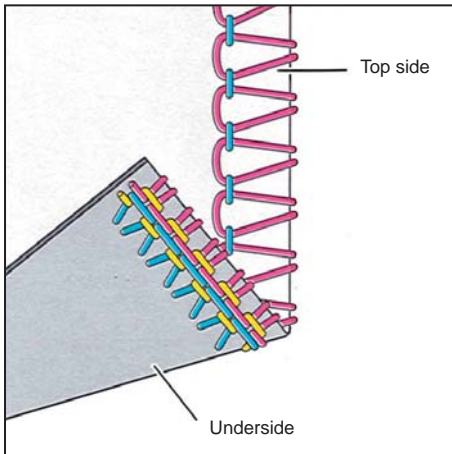
Set the yellow thread tension to a higher value and/or the pink thread tension to a lower value.



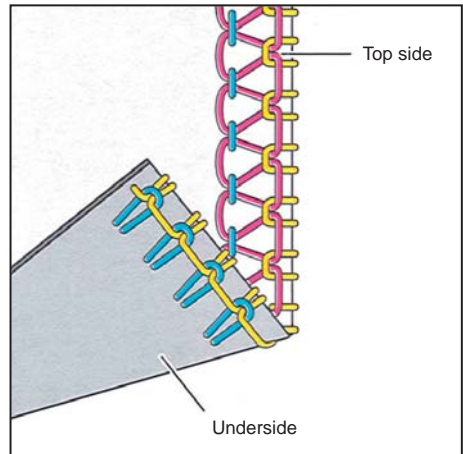
**3-thread FLATLOCK (wide)  
Program 4**



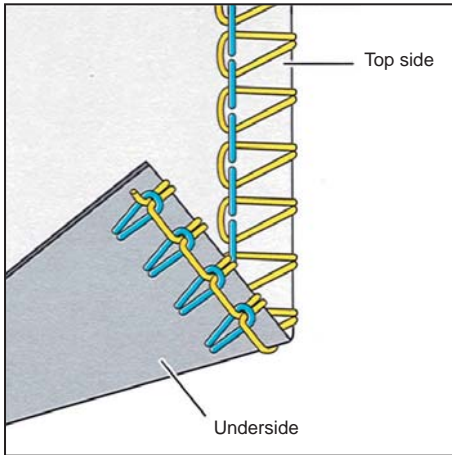
The **needle thread** is too tight.  
Set the needle thread tension (blue) to a lower value.



The **upper looper thread** (pink) appears on the underside of the material.  
Set the pink thread tension to a higher value.



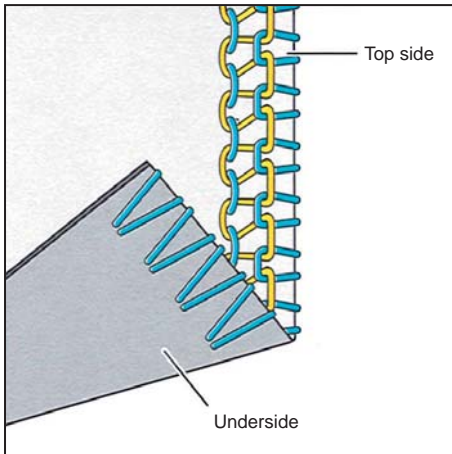
The **lower looper thread** (yellow) is too loose.  
Set the yellow thread tension to a higher value.



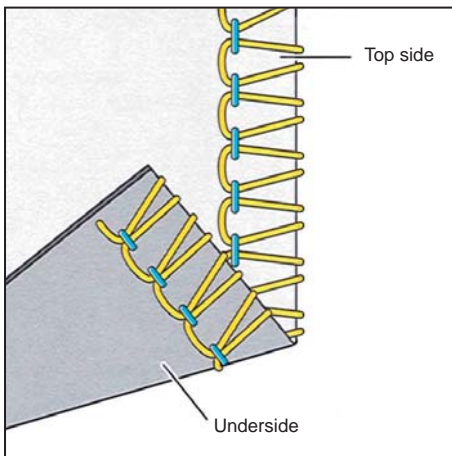
**2-thread Flatlock (wide)  
Program 5**

When all tension units are correctly set, the loops of both threads are directly on the reverse side of the fabric.

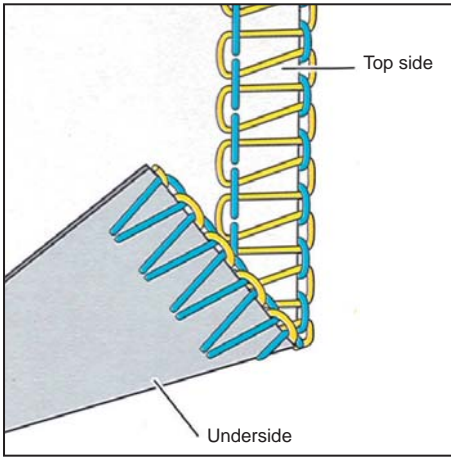
**Note:** If you want to sew the 2-thread flatlock seam, then you will need to insert the converter (see page 29).



The needle thread is too loose or the lower looper thread (yellow) is too tight. Set the relevant needle thread tension to a higher value and/or the yellow thread tension to a lower value.

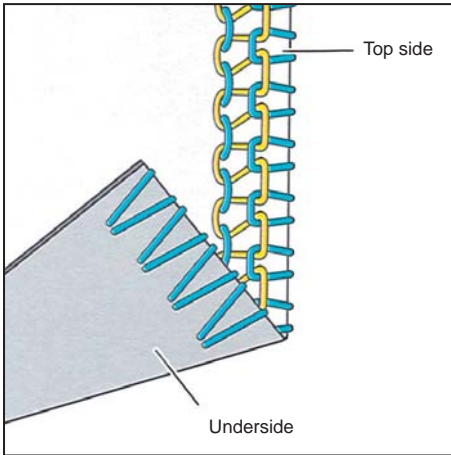


The **lower looper thread** (yellow) is too loose or the needle thread is too tight. Set the yellow thread tension to a higher value and/or the relevant needle thread tension to a lower value.

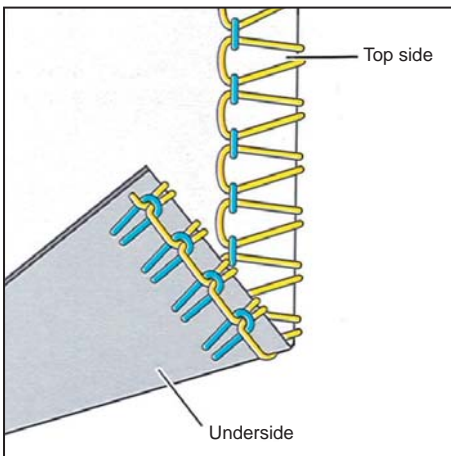


**2-thread overedge seam**  
**Wide and narrow**  
**Program 6**

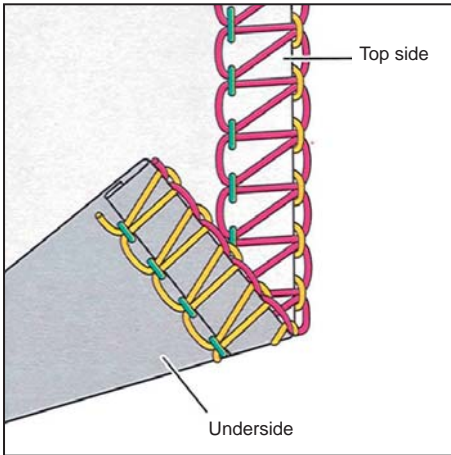
**Note:** If you want to sew the 2-thread overedge seam, then you will need to insert the converter (see page 29).



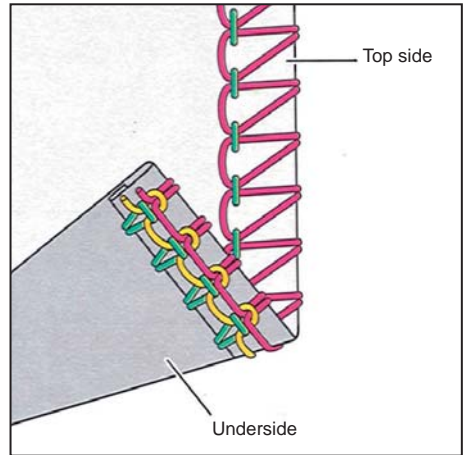
The needle thread is too loose or the lower looper thread (yellow) is too tight. Set the relevant needle thread tension to a higher value and/or the yellow thread tension to a lower value.



The **lower looper thread** (yellow) appears on the underside of the material. Set the yellow thread tension to a higher value and/or the relevant needle thread tension to a lower value.

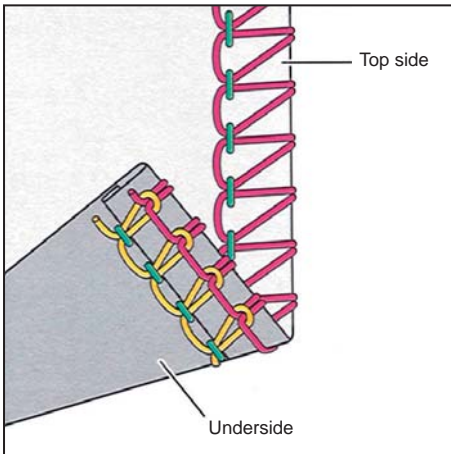


**3-thread rolled hem  
Program 7**



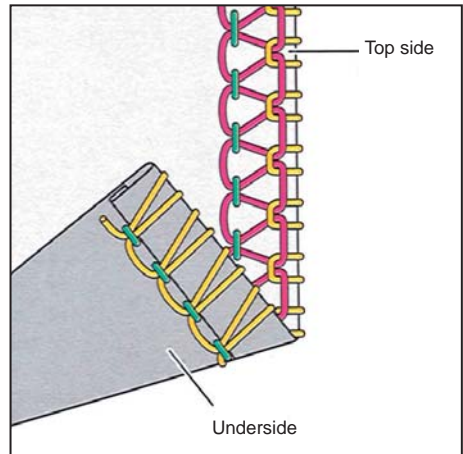
The **right needle thread (green)** is too loose.

Set the green thread tension to a higher value.



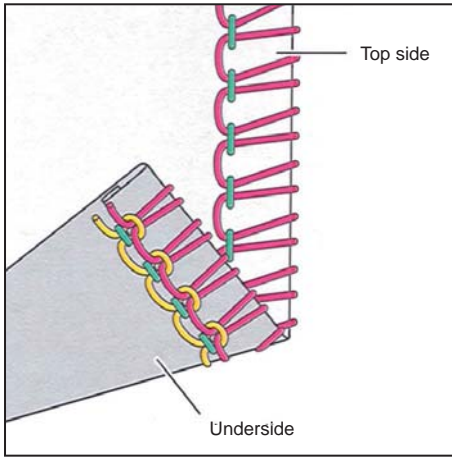
The **upper looper thread (pink)** appears on the underside of the material.

Set the pink thread tension to a higher value and/or the yellow thread tension to a lower value.

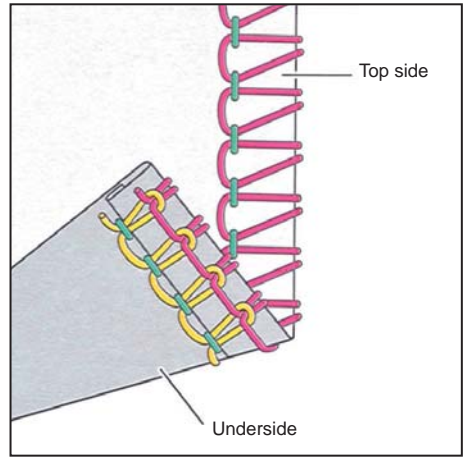


The **lower looper thread (yellow)** appears on the top side of the fabric.

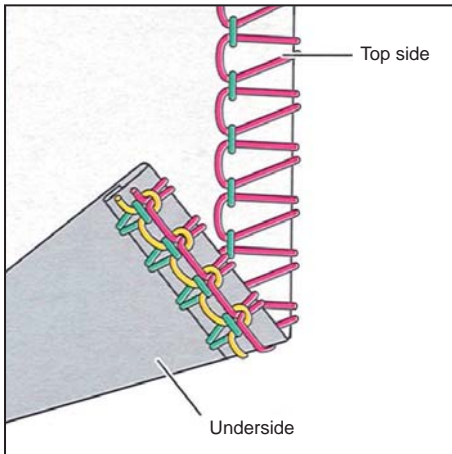
Set the yellow thread tension to a higher value and/or the pink thread tension to a lower value.



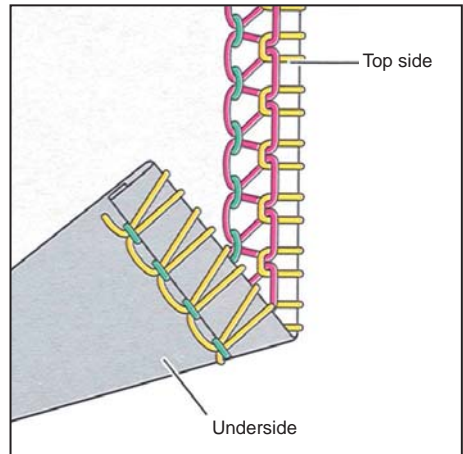
**3-thread rolled hem (folded)  
Program 8**



The **upper looper thread** (pink) only partly loops around the fabric edge.  
Set the pink thread tension to a lower value and/or the yellow thread tension to a higher value.



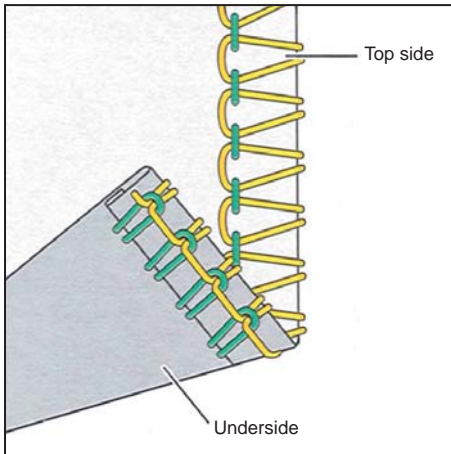
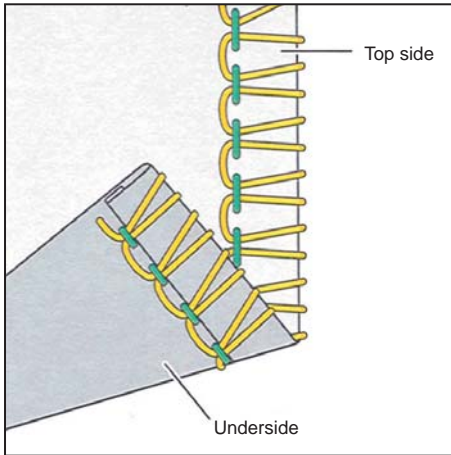
The **right needle thread** (green) is too loose.  
Set the green thread tension to a higher value.



The **lower looper thread** (yellow) appears on the top side of the material.  
Set the yellow thread tension to a higher value and/or the pink thread tension to a lower value.

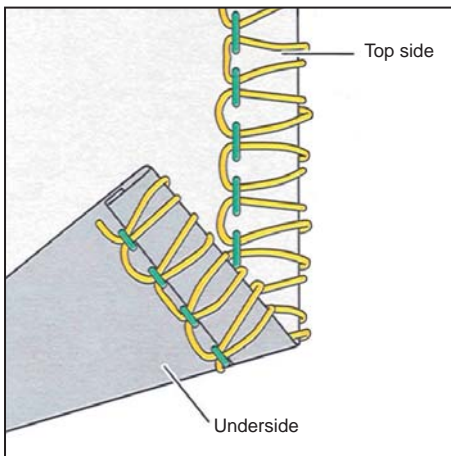
## 2-thread rolled hem (folded) Program 9

**Note:** If you want to sew the 2-thread overedge seam, then you will need to insert the converter (see page 29).



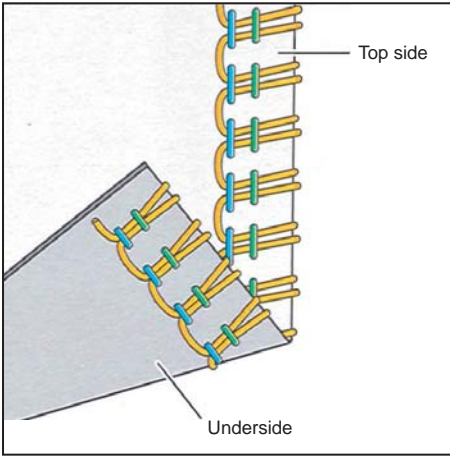
The **right needle thread** (green) is too loose.

Set the green thread tension to a higher value and/or the yellow thread tension to a lower value.



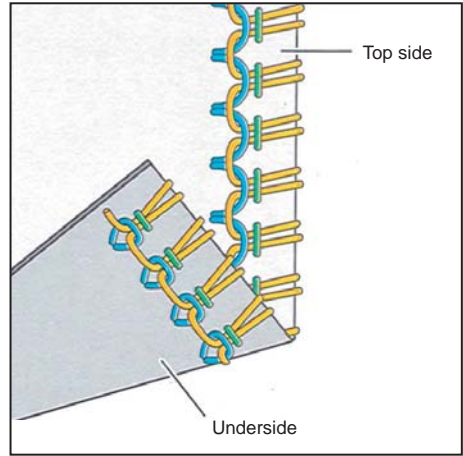
The **lower looper thread** (yellow) is too loose.

Set the yellow thread tension to a higher value.

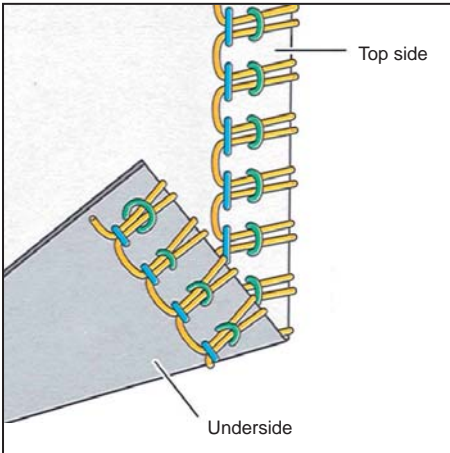


**2-needle, 3-thread closing seam  
Program 10**

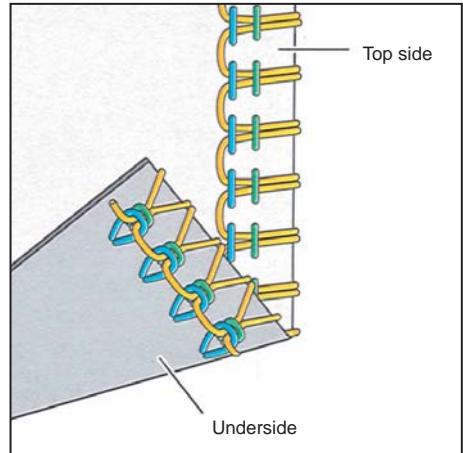
**Note:** If you want to sew the 2-needle, 3-thread closing seam, then you will need to insert the converter (see page 29).



The **left needle thread (blue)** is too loose.  
Set the blue thread tension to a higher value.



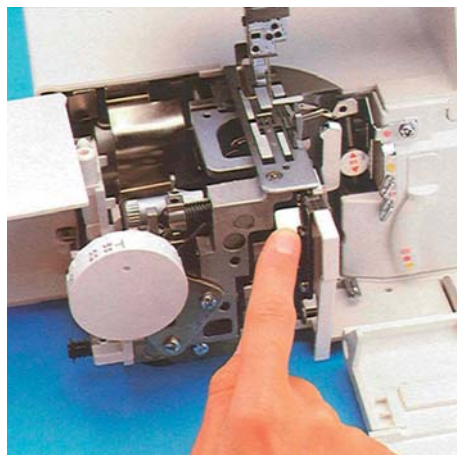
The **right needle thread (green)** is too loose.  
Set the green thread tension to a higher value.



The **lower looper thread (yellow)** is tight.  
Set the yellow thread tension to a value.

**Thread chart for 2-, 3- and 4-thread overedge seams**

Fabric	Thread	Stitch length
Light fabrics: organdy, fine knitwear, taffeta, silk, lining fabrics	Cotton                   no. 50 – 70 Synthetic thread   no. 70 – 140	2.0 – 4.0 mm
Medium-heavy fabrics: cotton, tricot, linen, dress materials	Cotton                   no. 40 – 60 Synthetic thread   no. 70 – 140	2.0 – 4.0 mm
Heavy fabrics: tweed, suit materials, denim, heavy cloth	Cotton                   no. 30 – 50 Synthetic thread   no. 70 – 140	2.0 – 4.0 mm
Knitwear:	Cotton                   no. 40 – 60 Synthetic thread   no. 70 – 140	2.0 – 4.0 mm
2 or 3-thread rolled hems	Polyester thread   no. 120 – 140 Mercerized thread (bulk thread)	1.0 – 2.0 mm

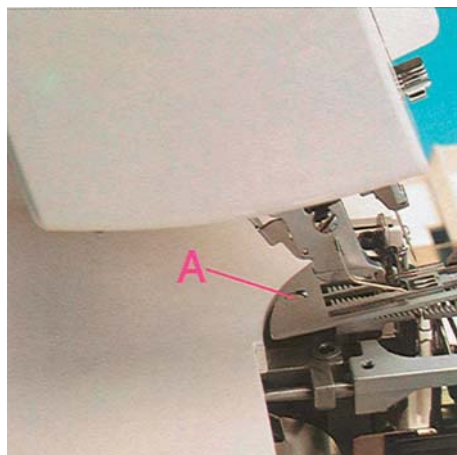


### Removing the needle plate

Raise the presser foot and move the needle(s) to the highest position. Remove the presser foot and open the swivel plate. Press up the needle plate disengaging lever (26). The needle plate (11) is raised out of its mount. The needle plate can be removed to the left.

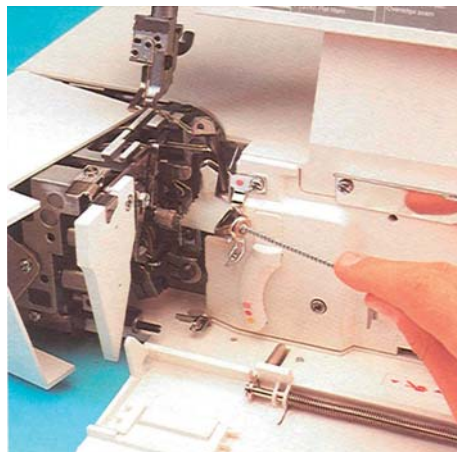
### Note:

The machine should be unthreaded when removing the needle plate.



### Inserting the needle plate

Place the needle plate to the rear on the guide pin (A) and press down at the front until you hear it click into place.



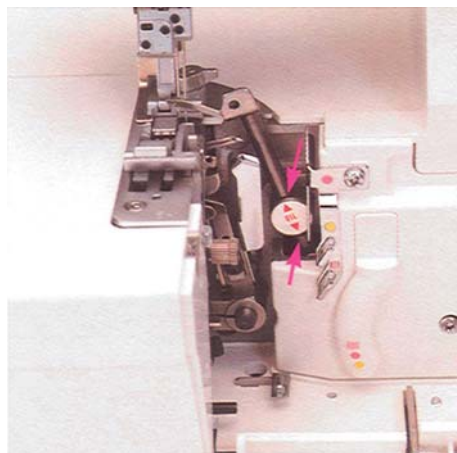
## **Machine maintenance**

### **Cleaning the machine**

#### **Switch off the electrical power**

Remove the trimming waste box and open the looper cover and swivel plate. Disengage the upper blade (see page 27) and remove the presser foot and the needle plate.

Use the accessory brush provided to remove any waste thread from the upper and lower blades, the differential feed and the looper area.



### **Lubricating the machine**

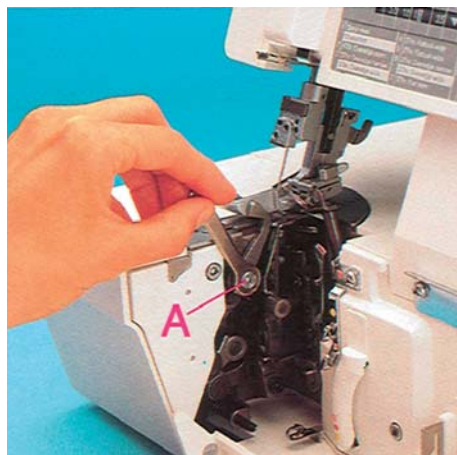
#### **Switch off the electrical power**

Move the upper overedge looper into its highest position. Lubricate the points shown above with the oil provided in the accessory box every time you clean the machine. One or two drops of PFAFF sewing machine oil are sufficient. All other parts are manufactured from special materials and do not require any lubrication.



### **Cleaning the rubber feet**

Clean the rubber feet from time to time with alcohol. This ensures good stability.



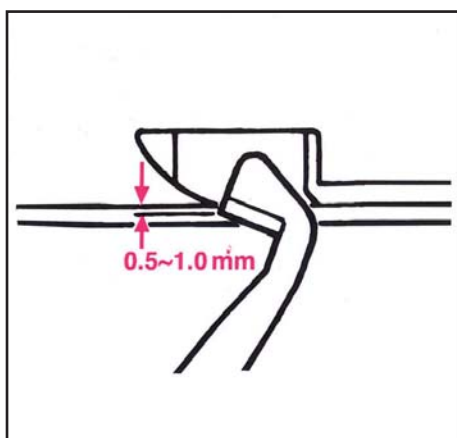
## Changing the upper blade

### Switch off the electrical power

**To remove:** Set the adjusting knob for seam width to 3.5 mm. Fasten the upper blade (see page 31) before loosening the fastening screw (A) with the wrench provided in the accessory box. Then remove the upper blade.



**To insert:** Attach the new upper blade and gently tighten the fastening screw. Then turn the handwheel until the upper blade is in the lowest position.



In this position the front edge of the upper blade must be **0.5 to 1.0 mm lower** than the **cutting edge** of the **lower blade**. When the upper blade has been properly inserted you can fully tighten the fastening screw. Loosen the screw to the movable upper blade.



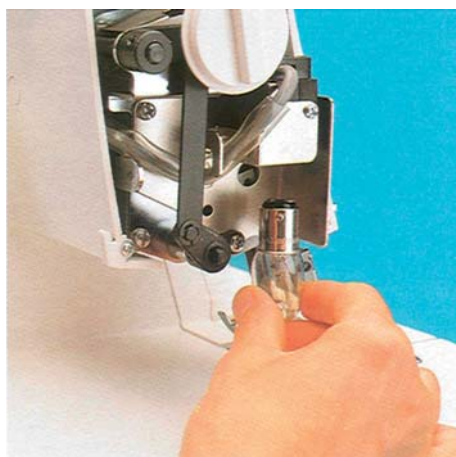
### **Changing the light bulb**

#### **Switch off the electrical power**

Using the screw driver in the accessory box loosen the fastening screw to the sewing light cover (16) until this can be removed.



Push the light bulb fully into its socket. Rotate anti-clockwise through half a turn and remove.



Guide the new light bulb (max. 15 W) into the socket and twist until both pins on the bulb click into place. Press the bulb right into the socket, twisting it clockwise until it is securely fixed.

Mount the sewing light cover and tighten the fastening screw.

## Special Accessories

This machine offers a wide range of special accessories for special serging details. Consult your PFAFF dealer.

Special accessory	Order No.	Use
Multi purpose foot M	29 924 993 82-002	Foot, to which guides H1, H2 and H3 can be attached
Lace and braiding guide H1	29 924 993 82-003	Guide for applying lace or braiding (to the under side of the fabric)
Hemmer guide H2	29 924 993 82-001	Guide for hemming/turns in one inch under while serging
Bias-tape guide H3	29 924 993 82-004	Guide for applying bias tape as edging
Transparent presser foot N	29 924 993 82-006	Foot, to which guides F2, F3, F4 and N1 can be attached
Faggotting guide F2	29 924 993 82-008	Guide for joining two pieces of fabric with consistent clearance
Lace guide F3	29 924 993 82-005	Guide for applying lace (on the upper side of the fabric)
Flat-felled-seam guide F4	29 924 993 82-009	Guide for sewing flat-felled seams
Fancy-stitch guide N1	29 924 993 82-007	For stitching down a double chainstitch or a 3-thread overedge seam and for decorative effects
Cording foot K	29 924 993 82-011	For serging cording with the cording tongue K1 and the guide K2
Cording tongue K1	29 924 993 82-012	For serging pintucks
Cording guide K2	29 924 993 82-010	For serging cording with gimp thread
Strap and belt-loop foot L	29 924 993 82-013	For sewing belt loops and straps, and for ornamental stitches with a cover stitch
Universal tape binder	29 924 993 82-014	For binding fabric edges with sewing on bias-tape with different widths
Beading foot P	29 924 993 82-015	For serging on beading and sequins

Special accessory	Order No.	Uses
Bead needle plate P	29 924 993 82-016	The bead needle plate P together with the beading foot P allows you to serge on beading and make a rolled hem simultaneously
Multi-purpose foot C	29 924 993 82-017	For sewing on bands, elastic tape, elastic thread and fishing line
Shirring/ Gathering foot G	29 924 993 82-018	For shirring/gathering and joining two pieces of fabric simultaneously
Blindstitch foot D	29 924 993 82-019	For serging blind hems and ornamental seams
Band- and braiding foot Q	29 924 993 82-020	For sewing on bands and braiding. Gimp cords and thread and bands with decorative threads can be stitched over using this foot together with guide K2
Piping and welting foot E	29 924 993 82-028	Presser foot for guiding and sewing in piping and welting
Accessory holder	29 924 993 82-021	Holder, to which the following accessories together with the retaining screw and the swiveling arm can be attached
Retaining screw	29 924 993 82-023	For securing the following accessories to the accessory holder
Edge guide with units of measurement	29 924 993 82-022	For guiding the fabric edge and measuring cut widths and seam widths simultaneously (use the machine's standard presser foot)
Gathering/ Shirring tongue	29 924 993 82-027	For gathering/shirring and joining two pieces of fabric simultaneously (use the machine's standard presser foot)
Tape binder 40 mm	29 924 993 82-031	For binding the fabric edge with 40 mm tape. Binding width 10 - 12 mm. (Use the machine's standard presser foot)
Swiveling arm	29 924 993 82-024	For attaching the following accessories to the accessory holder
Curved-seam guide	29 924 993 82-025	For serging a curved piece to a straight piece of fabric (use the machine's standard presser foot)
Piping and welting accessory	29 924 993 82-030	Together with piping foot E, for binding and guiding piping and gimp between two layers of fabric.

## Sewing problems and their solutions

These machines have been developed with ease of operation in mind. No difficult or tricky settings need to be made. Sewing problems of the kind described below may occur as a result of minor adjustment and operating errors. They can be easily adjusted by following the instructions.

Problem	Cause	Solution
Needle breakage	The needle was bent or the point damaged. The needle was not fully inserted. The fabric was pulled too firmly.	Insert new needle (see page 11). Insert needle fully (see page 11). Do not pull on the fabric when sewing.
Thread breaks	Incorrectly threaded. Thread has caught. Thread tension is too tight. Needle not fully inserted. Incorrect needle used.	Thread properly (see page 12 – 19). Check if the thread is caught on the spool stand etc. Correct the tension (see page 40 – 52). Insert needle correctly (see page 11). Use needle system EL X 705.
Skipping stitches	Needle bent or point damaged. Needle not fully inserted. Incorrect needle used. Incorrectly threaded.	Insert new needle (see page 11). Insert needle correctly (see page 11). Use needle system EL X 705. Thread correctly (see page 12 – 19).
Stitch formation faulty	Incorrect setting of thread tensions.	Re-set thread tensions (see page 40 – 52).
3- or 4-thread overedge seam has an irregular appearance and the upper looper thread has not interlocked in the seam.	The converter is attached.	The converter must be removed (see page 29).

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
Machine will not operate although master switch is on.	Power supply interrupted.	Close looper cover (see page 8).
Fabric not neatly trimmed.	Waste thread between upper and lower blade.  Upper blade is blunt.	Clean blades.  Replace upper blade (see page 52).
Puckered seams	Thread tension too tight.  Incorrect setting of differential feed.  Thread has caught due to incorrect threading.	Reduce thread tension.  Re-adjust differential feed (see pages 34, 35).  Thread correctly (see pages 12 – 19).
Fabric not fed through evenly	Stitches too short.  Sewing foot pressure too low for heavy fabrics.  Sewing foot pressure too high for lightweight fabrics.	Increase stitch length (see page 31).  Increase sewing foot pressure (see page 25).  Reduce sewing foot pressure (see page 25).

**Specifications**

Maximum sewing speed	1300 stitches/min.
Seam width	1.4 mm – 9.0 mm
Cover stitch width	5 mm
Stitch length	0.5 mm – 4 mm
Presser foot	exchangeable
Lubrication	manual
Presser foot height	4.5 mm
Overedge stroke	2.0 mm
Needle system	EL X 705, cat no. 2002
Needle size	80/12, 90/14
Number of threads	2, 3, 4
Dimensions (width x height x depth)	355 x 290 x 300 mm
Weight	8.6 kg

**Packing contents**

- 1 machine
- 1 foot control
- 1 instruction manual/guarantee card
- 1 trimming waste box
- 1 machine cover
- 1 accessory box

We reserve the right to change the machine equipment and the assortment of accessories without prior notice, or make modifications to the performance or design.

Such modifications, however, will always be to the benefit of the user and the product.

## **Intellectual property**

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Please note that on disposal, this product must be safely recycled in accordance with relevant National legislation relating to electrical/electronic products. If in doubt please contact your retailer for guidance.

