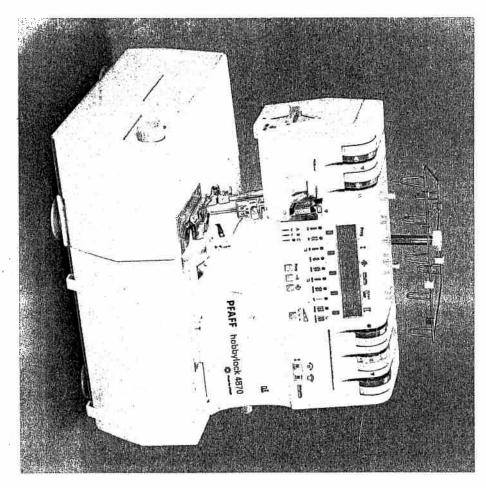
### hobbylock 4870



Instruction manual

please fold this or the last page out when reading. For easier understanding of this instruction manual

### Safety rules

For the United Kingdom only

The leads must under no circumstances be connected to the safety-lead terminal I nor to a plug with three pins.

according to the following code: The wires in the mains lead are coloured

Blue: Neutral

colour coding of the terminals in your plug, of this appliance may not correspond to the As the colours of the wires in the mains lead proceed as follows:

the lettter N or coloured black. nected to the terminal which is marked with The wire which is coloured blue must be con-

connected to the terminal which is marked Under no circumstances should cut-off mains with the letter L or coloured red. The wire which is coloured brown must be

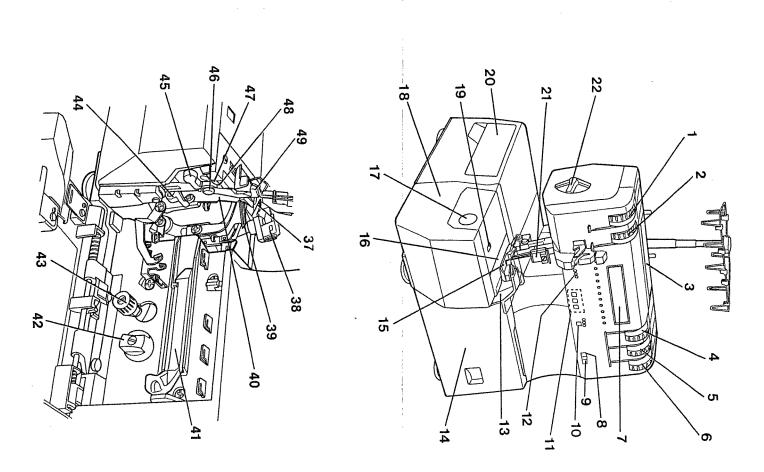
immediately. Defective mains leads must be completetly replaced. plugs be used. They should be disposed of

Only 3 A spare fuses must be used as approved by ASTA according to BS 1362 and the fuse cover must be marked 3 A or with the covers. Spare fuse covers are available from The plug must never be used without fuse corresponding colour code.

electrical suppliers or the PFAFF agencies.

on page 2. Please also observe the general safety notes

You will find the contents on page 4 and 5



# Parts of the hobbylock 4870

- (1) Upper thread tension left
- (2) Upper thread tension right
- (3) Handle to carry
- (4) Looper thread tension right
- Looper thread tension left
- Looper thread tension for chainstitch
- Display

- Window for the stitch length
- (9) Key for speed selection Window for the differential feed
- Program key left
- Cursor key middle
- LED needle display A,B,C

Mod key (right)

(13)

Knife guard

- (14)Looper cover
- (15)Sewing foot (combination foot)
- (16)Needle plate
- Adjusting knob for seam width
- (18) Detachable work support
- (19)(20)Accessories box Window for the seam width
- (21)Needle holder
- Lever for the sewing foot pressure
- Right overedge looper
- (38) Converter
- (39) Left overedge looper
- (40) Chainstitch looper
- (41) Automatic looper threader for the left looper
- (42)Knob to disengage upper knife
- (43)Knob to disengage the right overedge looper
- <u>4</u> Positioning lever for the chainstitch looper
- (46)(45)Screw to secure upper knife Lever to disengage needle plate
- (47)Screw to secure lower knife
- (48)Lower knife



# Important safety instructions

For the United States only

This sewing machine is designed and manufactured for HOUSEHOLD use only. When you use an electric appliance, the following basic safety precautions should always be adhered to: Read all instructions before using this sewing machine.

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

- The sewing machine should never be left unattended when plugged in. Always unplug this
  appliance from the electric outlet immediately after using and before cleaning.
- Always unplug before relamping. Replace bulb with same type rated 15 Watts.
- Do not reach for a sewing machine that has fallen into water. Unplug immediately.
- Do not place or store a sewing machine where it can fall or be pulled into a tub or sink. Do not place in or drop into water or other liquid.

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

- Do not allow to be used as a toy. Great care is necessary when this sewing machine is used by or near children.
- Only use this sewing machine for its intended purpose as described in this manual. Only use 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 appliance 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 control free from the accumulation of lint, dust, and loose
  cloth
- Never drop or insert anything into any opening.
- Do not use out of doors.
- Do not operate where aerosol (spray) products are being used or where oxygen is being administered.
- 8. To disconnect, turn all controls to off ("O") position, then remove plug from socket.
- Never operate on a soft surface such as a bed or couch where the air openings may be blocked.
- Do not unplug by pulling on cord. To unplug, hold the plug, not the cord
- Keep fingers away from all moving parts. Special care is required around the sewing machine needle.
- 12. Always use the proper needle plate. The wrong plate can cause the needle to break
- 13:-Do not use bent or blunt needles. Only use needles recommended by the manufacturer
- 14. Do not pull or push fabric while stitching. It may deflect the needle, causing it to break
- 15. Switch the sewing machine off ("O") when making any adjustments in the needle area, such as threading needle, changing needle, threading bobbin, or changing presser foot, etc.
- 16. Always unplug sewing machine from the electric outlet when removing covers, lubricating, or when making any other user servicing adjustments mentioned in the instruction manual.
- 17. Hold plug when rewinding into cord reel. Do not allow plug to whip when rewinding. Please also observe the general safety notes on page 2.

# KEEP THESE INSTRUCTIONS IN A SAFE PLACE

### Notes on safety

### Notes on safety for domestic sewing machines according to DIN 57 700, Section 28 or IEC 335, Section 28.

- 1. The user must exercise adequate caution working. area under constant observation while ment of the needle and keep the sewing with regard to the up and down move-
- 2. When leaving the machine, during maintenance work or when changing the mains by pulling out the mains always disconnect the machine from mechanical parts or accessories,
- ω fhe maxim 'm permissible wattage for the sewing lamp is 5 Watts.
- The tension of the drive belt should only be djusted by a Pfaff mechanic.
- Th rack... re should be put into operation as i. licated on the specification plate.
- Do r .. place any objects in openings on the machine.
- 7. Do not use the sewing machine if: there is visible damage, it is wet, e.g. with condensation. its function is defective,
- Do not pull the mains plug out of the socket by its cord.
- If this appliance is used for another purpose than that intended or if it is wrongly operated, we cannot accept any liability for any damage caused.
- 0. To avoid the risk of electric shock, do not open the machine. There are no parts repair. This the exclusive responsibility of our qualified service staff inside the machine which the user can
- <u>--</u> Be sure to use only original PFAFF parts.

### Environment

Humidity 20% to 80% Ambient temperature 100° C to 40° C The recommended environment is:

must be kept unblocked and used on a sive chemicals or liquids. tricity, heat-producing objects, corrodampness, direct sunlight, static elecway that it is not exposed to: dust, severe home. It should be operated in such a machine for supervised use in the tro-mechanical appliance; it is a This sewing machine is a high-quality elec-To permit adequate ventilation the machine

### Treatment

firm and even surface.

dropping it. damage your machine by knocking or Always make sure not to

### Cleaning

cloth with alcohol or paraffin. and soft cloth which is free of fluff. To Housing and display: To clean the housing, use a dry, clean remove any stubborn dirt, use a soft

### Please Note!

thin chemicals to clean the housing. mical products such as petrol (gas) or Never use insecticides or che-

# Simple, up-to-date sewing

Congratulations! You have bought a high-quality product that provides unique advantages. Your new hobbylock 4870 can take any material in its stride and will sew, trim and neaten up for you in one

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

operation.

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

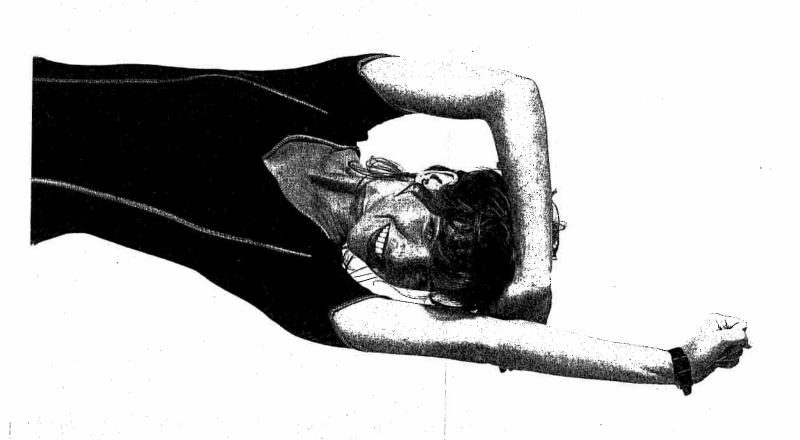
It is certainly time well spent, since it is the only way to find out just what your machine can do and put it to full use.

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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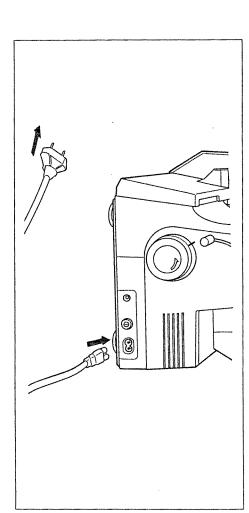
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## Technical part

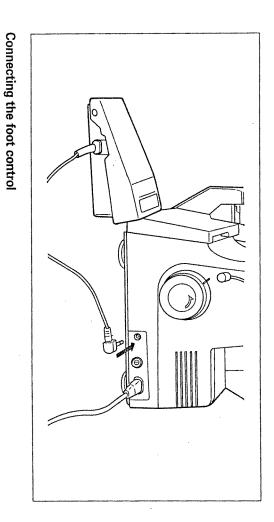
pressure	chainstitch seam  Fixing the unner knife /sewing foot	needle plate Converting the machine for	Changing the needle, sewing foot and	Stitch length adjusting knob	Seam width adjusting knob	Sewing test / thread cutter	Sewing foot lever	I hreading the needles	Inreader	and the looper	Threading the thread guides	Waste box / looper cover	Spool stands	Accessory box	Detachable work support	Electrical connection
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Caution:

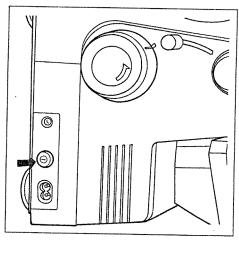


## Electrical connection

Connect the mains cord between socket (29) of the sewing machine and the wall socket.

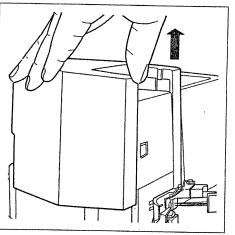


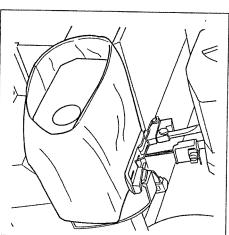
Connect the plug of the foot control with the connection socket (31) of the sewing machine. The preset area of the sewing speed (see page 37) is regulated by pressing the pedal.



### Main switch

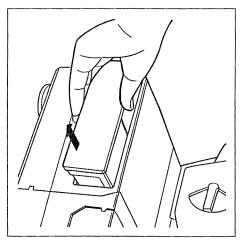
When the main switch (30) is turned on the sewing light is turned up. The machine is now operational.





# To remove detachable work support / free arm

The free arm is particularly suited to sew tubular goods without any difficulty. To do so pull the detachable work support (18) to the left. Insert the workpiece in the opposite direction.

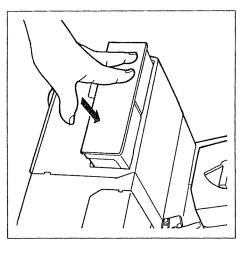


### Accessory box

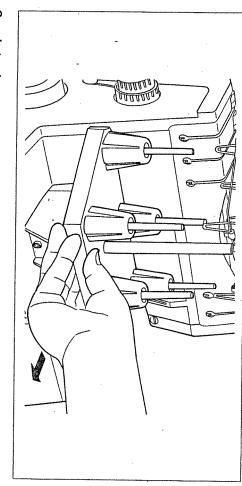
To remove:
Grip in the recess beneath the accessory box (20) and pull out in the direction of the arrow.



To open:
Open the accessory box (20) by pressing the two points "A".

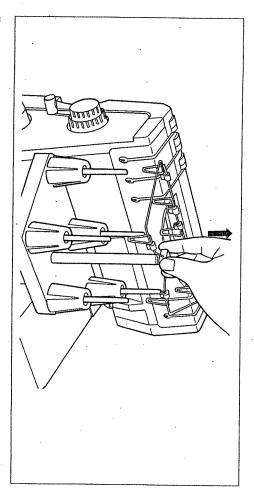


To insert:
Push the accessory box (20) into the appropriate opening until it catches. The words "PFAFF hobbylock" must be facing upwards.



### Spool stands

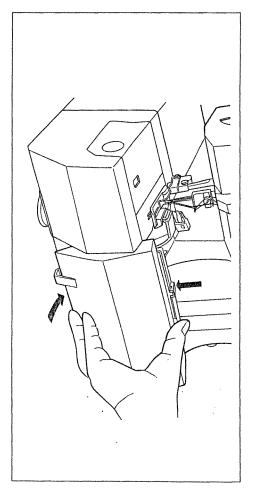
Before the spools are attached you must pull the spool stand (28) out fully in the direction of the arrow.



Extend the telescopic thread guide (24) fully.

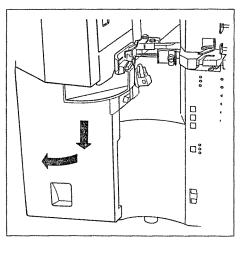
To assure optimal thread take-up the two upper telescopic extensions must be turned slowly until you hear the ball stops catch in place.

When you have finished sewing push in the telescopic thread guide (24) and push the spool stand (28) in towards the machine, with or without the spools, until it catches in place.



### Waste box

Insert the tabs on the waste box (51) into the notches on the looper cover (14) and press it down against the looper cover until you can hear it catch in place. To take off reverse this process.



### Looper cover

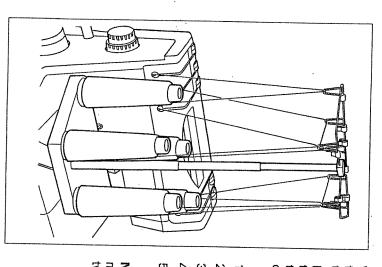
Push the looper cover (14) to the right until it catches in place and then swivel it down. The individual threading paths as well as the converter setting are illustrated in colour on the inside of the looper cover.

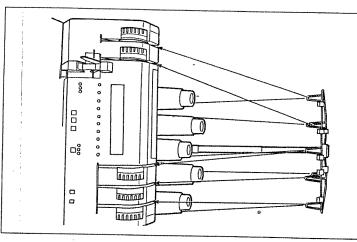
**Note:** The **power supply** is **interrupted** when the **looper cover** is opened i.e. it is now not possible to sew with the machine. **"Close looper cover"** appears in the display.

play. The LEDs also flash the preset speed.

nd e off

off -





With both hands pull the thread through the thread guide (36) and the appropriate thread tension (1, 2, 4, 5 and 6).

Make sure the thread stays in the slot on the back thread guide (36). Set the thread tension to "N" and thread as indicated.

- 1. Right overedge looper (pink)
- 2. Left overedge looper (yellow)3. Chainstitch looper (mauve)
- 4. Right needle (green)
- 5. Left needle (blue)

**Note:** To achieve top sewing results make sure that the thread is pulled between the tension discs when threading.

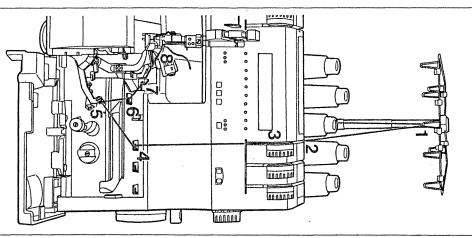
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ed in

## Threading thread guides

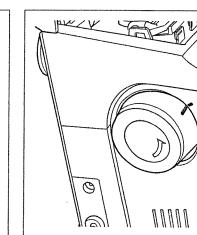
Place thread spools on the spool pins (25). For smaller spools we recommend you attach a thread unwinding disc to the spool with the rounded end to the bottom (see the accessories page 66).

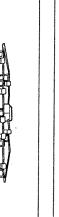
Thread the thread guides (23) according to colour.

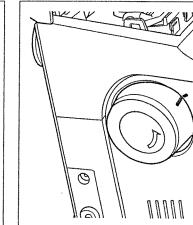


# Threading the right overedge looper

The slider on the converter must be in the right hand position **B** (see page 50). Thread the right overedge looper (37) in the order 1 to 8 and draw the thread to the left under the sewing foot. The thread path is marked in **pink**.



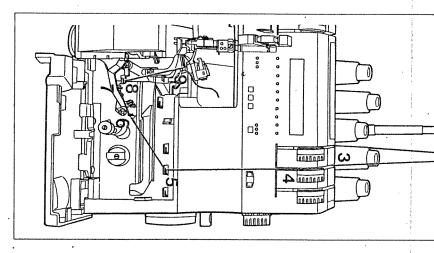


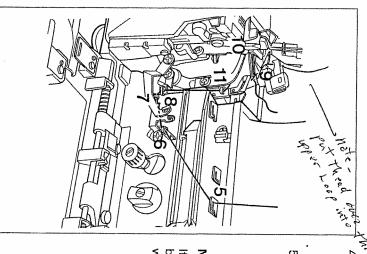


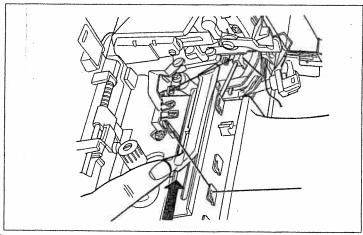
The marking on the hand wheel must be in line with the marking on the housing.

Threading the left overedge looper

Thread the left overedge looper (39) in the order 1 to 8. Pull the thread from thread guide 8 through the looper eye
 9 and pull it a bit with your left hand.







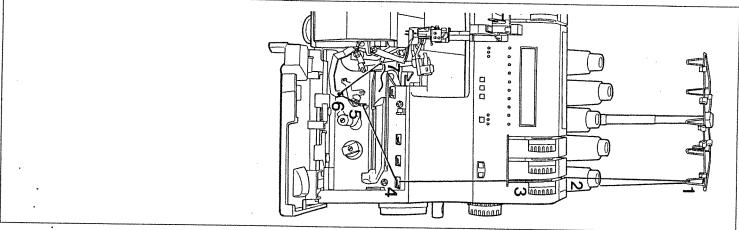
 Pull the end of the thread slightly and push the slider on the looper threader (41) to the left until it rests in place.

4. Pull the thread a bit more and at the same time let the slider slowly slide back. The thread is automatically inserted in guide 10.

5. With the tweezers thread the thread through thread guide (11) and draw the thread to the left under the sewing foot. The threading path is marked in yellow.

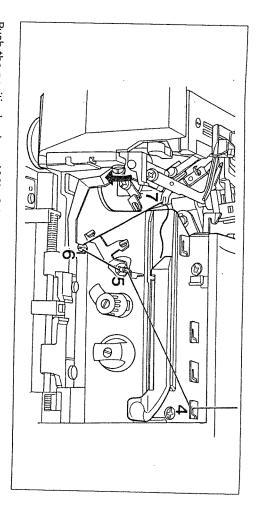
### Note:

If the slider on the threader (41) cannot be moved, the marking on the hand wheel is not correctly set.

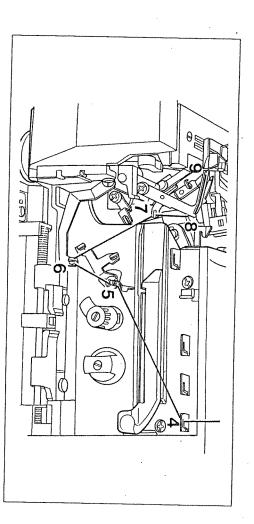


# Threading the chainstitch looper

Thread the chainstitch looper (40) in the order 1 to 7. Turn the hand wheel (32) anticlockwise so that the chainstitch looper is in the farthest position to the right.



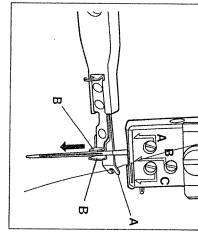
Push the positioning lever (44) of the chainstitch looper down. This moves the looper to the next position to the right and you can thread it easily.

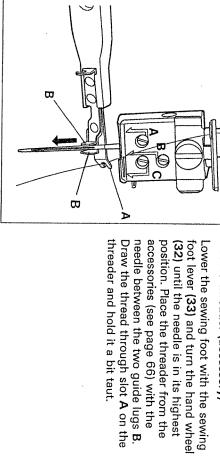


Draw the thread through thread guide 7 to thread guide 8. Now pull the thread through the looper eye 9 and place it to the left under the sewing foot. Return the positioning lever (44) of the chainstitch looper to its original position. The threading path is marked in mauve.

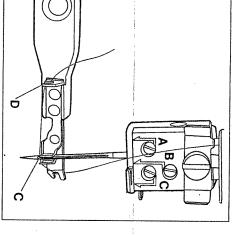
Note: If you forget to return the positioning lever (44) to its original position, the 4870 does not sew chainstitch.



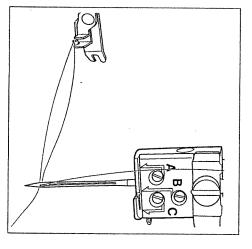




Needle threader (accessory)

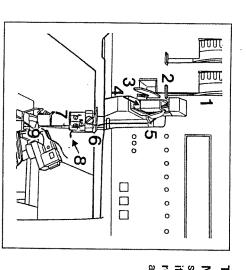


needle until the small hook **C** passes through the needle's eye. Draw the thread from the bottom through hook **D** and the thread automatically passes behind hook **C**. Slowly lower the threader behind the



Draw the threader back away from the needle's eye. You can now pull the end of the thread through the eye to thread the needle.



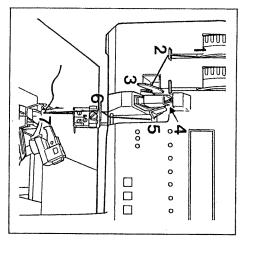


## Threading the needles

Note: When threading the needles make sure that the sewing foot lever (33) is in its highest position. This automatically releases the needle thread tensions and makes it easier to thread the needles.

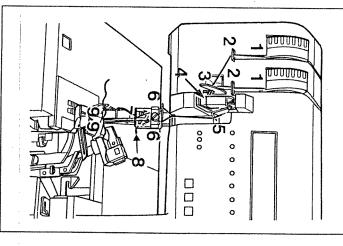
# Threading the overedge needles B or C (with or without needle A)

Thread the overedge needle in the order 1 to 8 and draw the thread through the needle's eye 9 with the threader. Draw the thread to the left under the sewing foot. The threading path is marked in green (dots).



# Threading the chainstitch needle A

Thread the chainstitch needle in the order 1 to 6 and draw the thread through the needle's eye 7 with the threader. Draw the thread to the left over the sewing foot. The threading path is marked in blue (triangles).



# Threading overedge needles B and C (without needle A)

Thread the overedge needles **B** and **C** in the order **1** to **8** and draw the thread through the needle's eye **9** with the threader. Draw the thread to the left under the sewing foot. The threading path for needle **B** is marked in **blue** (dots) for needle **C** in **green** (dots).

### stitch).

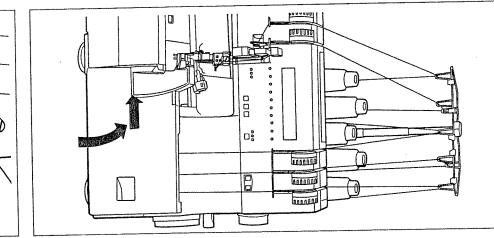
You can only sew with one or two needles (depending on the type of stitch).

Caution:

Never use three needles.

# Changing a spool when the machine is threaded

Cut the threads off close to the thread spool and put on the new spools. Tie the ends of the old thread and the new thread together. Pull the needle threads out of the needles. Lower the sewing feet. Now pull the threads through until the knots are about six inches through the thread guide before the needles. Cut the knots off and thread the appropriate needles. You can also draw the looper threads straight through the looper eye and to the left under the sewing foot. It is a lot easier to pull the looper threads if you turn to looper tensions (4,5 and 6) to -5.





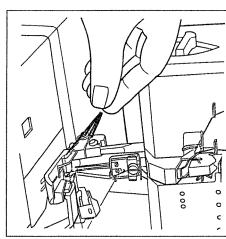
### Sewing foot lever

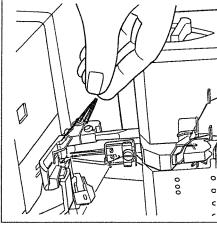
The sewing foot is raised and lowered with the sewing foot lever (33).

## Closing the looper cover

When the machine has been threaded you must close the looper cover (14).

Note: The power to the machine is cut off if the looper cover is open i.e. it is now impossible to sew. "Close looper cover" appears in the display. The LEDs on the speed selection also flash.





When the machine has been threaded, you should sew a test seam. First raise the sewing foot.

Sewing test

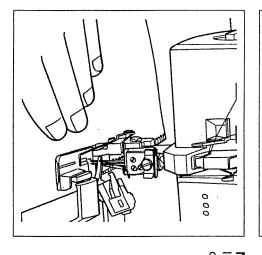


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**□**8

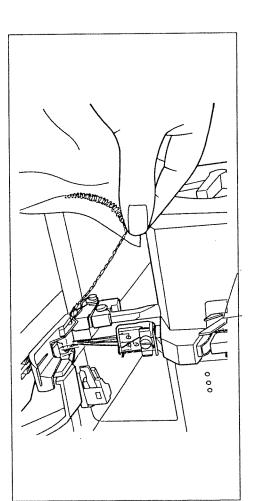
is automatically fed, you just need to guide the material with your hands (do Place a fabric remnant under the sewing foot right in front of the needle and lower the foot. With the threads held slightly taut, slowly begin to sew. Since the fabric not push or pull).



**Note:** Make sure that the threads interloop correctly when sewing (thread chain).

### Thread cutter

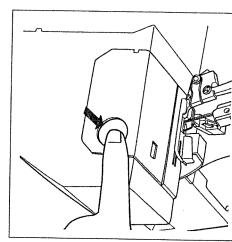
To use the thread cutter (26) you must sew over the end of the seam. Draw the thread chain that results to the front over the thread cutter.

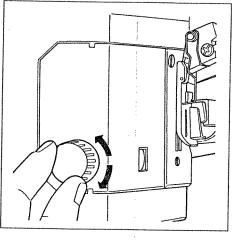


### Securing the seam

There are various ways of securing the ends of seams:

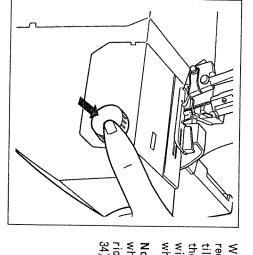
- Knot the thread chain.
   With knitwear you can pull the thread chain into the seam with a crochet needle.
   Sew about 2 inches over the end of the seam. Turn the sewing round and sew back a few stitches in the opposite direction without cutting the thread chain.





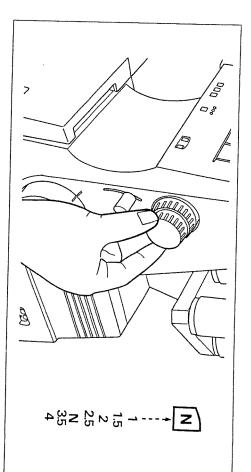
### range is from 3 to 5 mm and is infinitely variable. The standard setting N is 3.5 mm. can now set the seam width you require as indicated in the window (19). The The seam width adjusting knob (17) is released if it is pressed the right. You Setting the seam width

Note: The seam width settings 3 to 5 are just for needle C. If needle B is used the amount that is set is increased by 2.2 mm to 5.2 to 7.2 mm. For needle  $\bf A$ 7 to 9 mm seam width. the amount set is increased by 4 mm to



width being inadvertently changed til it catches in place, as indicated by the arrow. This prevents the seam while sewing. When you have set the seam width you require, press the knob to the right un-

rics with different thicknesses (see page 34). Note: The upper knife must be locked when sewing very thick fabrics or fab-

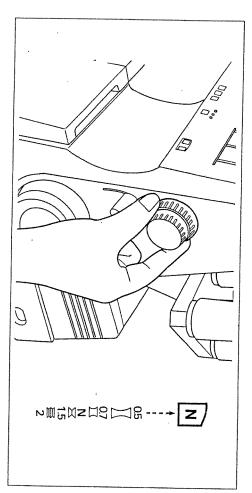


## Setting the stitch length

You can set the required stitch length by turning the stitch length adjusting knob (34). The setting is displayed in the window (8). The range is from 1 to 4 mm and is infinitely variable. The standard setting N is 3 mm.

### Differental feed

The differential feed consists of two feed dogs, one behind the other, that assure that the fabric is fed completely evenly. It prevents the displacement of the two fabric lays. The two feed dogs can be set separately i.e. so that the front dog feeds more than the rear dog or vice versa. This is particularly important when sewing rib knit. The differential feed is set differently depending on the type of fabric. You can see the settings on page 28.



# Setting the differential feed

You can set the differential feed by turning the adjusting ring (35). The range from 0,5 to 2 is infinitely variable and is indicated in the window (9). The following settings can be set with the knob:

Position 0,5 = front feed dog shorter movement, rear feed dog longer movement

Position N = same movement of feed dogs

Position 1,5 - 2 = front feed dog longer movement, rear feed dog shorter movement

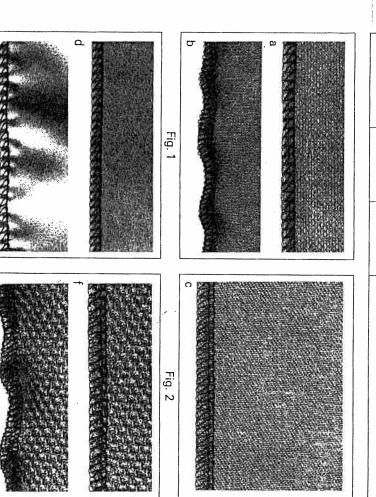
Note: You can also achieve fashionable effects with the differential feed dog:

1. A gathering effect can be achieved when sewing light fabrics with setting 2.

2., A wavelike effect can be achieved for use with rib knit with the setting 0,5.

This table shows possible settings for the differential feed. Sew a test seam to determine the correct setting for your fabric. The differential feed can also be set while sewing.

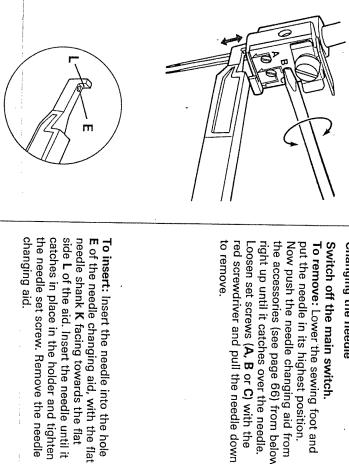
1,5 – 2	1,5	z	0,5 - N	Differential- Feed setting		
4	ω	2	<u> </u>	Fig.		
<del>-</del> h	Q.	С	യ	Correct seam		
heavy knitwear, very elastic fabrics and rib-knit	jersey, medium cotton, cut-pile fabrics and light knits	light cotton and denim, (normal fabrics)	nylon, tricot, lining fabrics, satin, poplin and silk	Fabric		

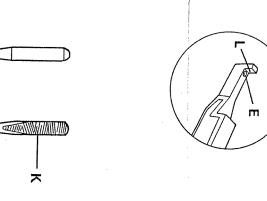


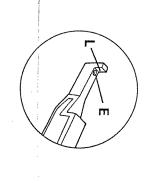
28

Fig. 3

Fig. 4







this machine: Note: The following needles are used for

System EL X 705 (80 or 90)

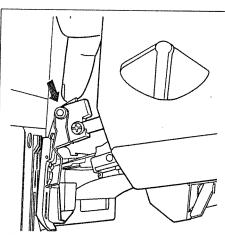
If using the usual sewing needles 130/705 H the thread tension must be increa-

Changing the needle

to remove. red screwdriver and pull the needle down right up until it catches over the needle. Loosen set screws (A, B or C) with the Switch off the main switch.

To remove: Lower the sewing foot and put the needle in its highest position.

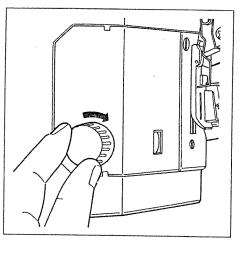
Now push the needle changing aid from the accessories (see page 66) from below



### automatically released from its mount the sewing foot lever (33) and set the needle in its highest position. Press the the spring slightly. and you can remove it to the left, raising sewing foot holder. The sewing foot is white lever on the back part of the To remove: Raise the sewing foot with Switch off the main switch Changing the sewing foot

To insert: Raise the spring slightly and place the sewing foot beneath the sewing foot holder so that when the sewing foot lever (33) is lowered the pin in the foot catches in place in the sewing foot holder.

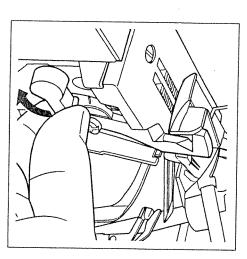
Check: Please raise the sewing foot lever to check that the foot is properly secured.



# Changing the needle plate

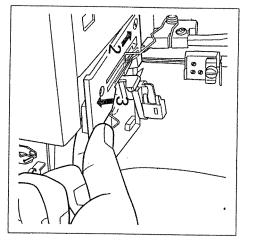
# Switch off the main switch

to 3 mm. Note: To change the needle plate you must set the needle width adjusting knob (17)



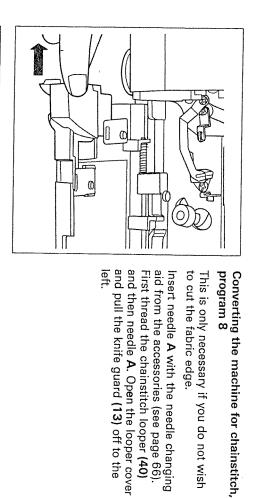
### To remove:

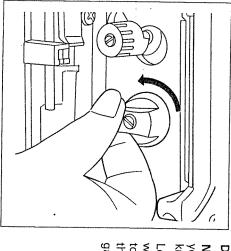
Raise the sewing foot with the **sewing foot lever (33)** and set the needle in its highest position. Remove the sewing foot and press down the **lever to disengage the needle plate (45)**. The needle plate **(16)** is raised out of its mount. Raise the needle plate a little more and remove to the left.

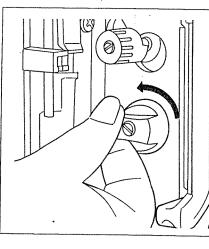


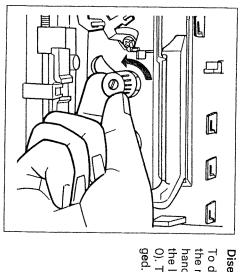
### To attach:

Raise the spring on the sewing foot holder a little and place the needle plate (16) in the guide screw at the back. Press the needle plate down at the front so that you can hear it catch.









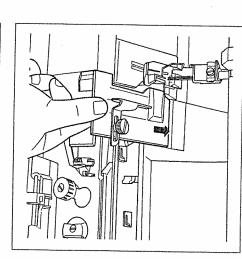
# Disengaging the upper knife

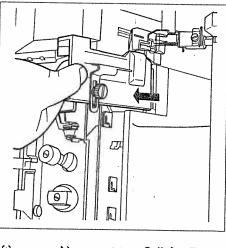
Note: To disengage the upper knife (49) you must set the seam width adjusting knob (17) to 3 mm.

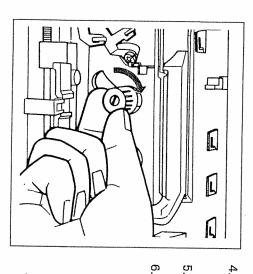
gaged. to disengage the upper knife (42) fully to the left (triangle on 0). The knife is disenwith the hand wheel. Now turn the knob Lower the knife to the lowest position

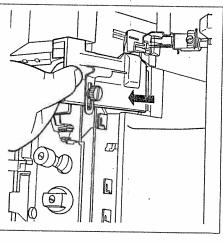
# Disengaging the right overedge looper

the looper (43) fully to the left (triangle to 0). The overedge looper is now disengahand wheel. Turn the knob to disengage the needle in its lowest position with the To disengage this looper you must set









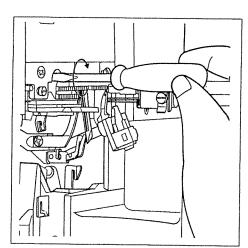
been inserted, it is imperative that the Caution: If the material guide plate has right overedge looper is disengaged.

sewn, return the machine to the original condition as follows: After the chainstitch seam has been

- 2. Now turn the knob to disengage the 1. Open the looper cover and remove the the lowest position. material guide plate. Set the needle in
- 3. Set the knob to adjust the seam width to 3 mm. engaged again. The right overedge looper is now looper fully to the right (triangle to 1).
- 4. Engage the upper knife by turning the knob to disengage the upper knife fully to the right (triangle to 1).
- 5. Push the knife guard in the looper cover and close it.
- 6. Finally attach the waste box again.

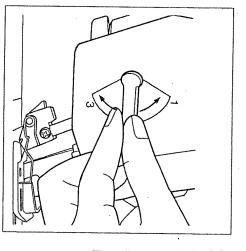
# Inserting the material guide plate

required. You can now sew in chainstitch cover and set the guide ruler to the width as the needle plate. Now close the looper accessories (see page 66) as illustrated and make sure that it is on the same level Insert the material guide plate from the



#### Note:

The screw for the upper knife must be loosened to change the cutting width.



# Adjusting the sewing foot pressure

You can change the sewing foot pressure depending on the thickness of the material with the lever (22).

Position 1 = sewing foot pressure for very thin fabric

Position N = sewing foot pressure for

with medium thickness

Position 3 = sewing foot pressure for very thick fabric

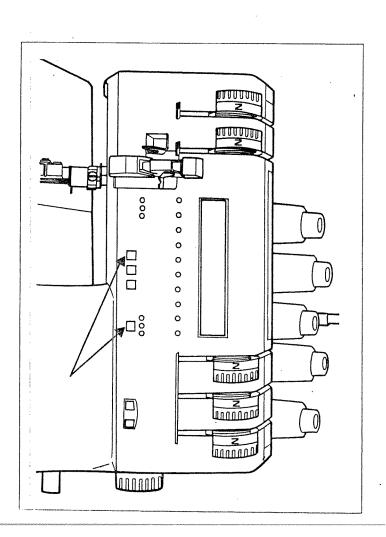
### Upper knife lock

You can sew absolutely any type of fabric with this machine, regardless of its thickness. For extremely thick fabrics you must tighten the axial lock screw on the upper knife with the large screwdriver from the accessories (see page 66). This prevents the knife from being displaced by the material. Remove the sewing foot and needle plate (see page 30, 31). To sew light fabrics the screw must be loosened by about two turns, so that the knife can again move in an axial (sideways) direction.

### **Electronics**

To programme language Speed pre-selection LED needle display To select program To enter new data

page 36 page 37 page 38 page 39 page 40



# You can choose between the following languages:

Czech, Danish, German, English, Spanish, French, Italian, Dutch, Norwegian, Polish, Finnish, Swedish and Japanese.

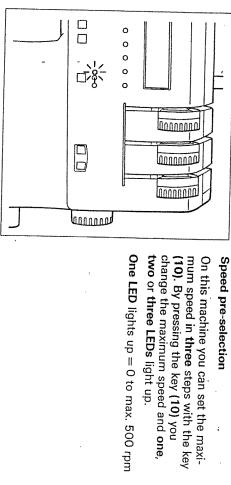
# To programme language:

Keep both the **program key (11 left)** and the **key (10)** for the speed preselection pressed and **at the same time** switch the machine on.

"cesky" (Czech) now appears in the display. You can select the language you want by repeatedly pressing the program key (11 left).

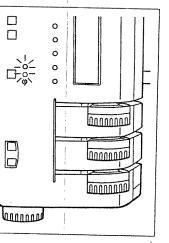
By pressing the cursor key (11 middle) once you programme your language.

Each description in the display will now appear in the language that you have selected.



One LED lights up = 0 to max. 500 rpm

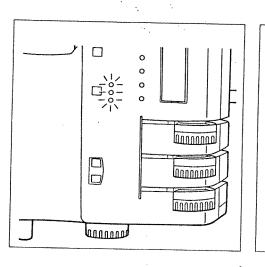
Speed pre-selection



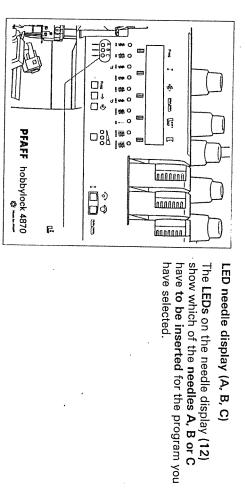
# Two LEDs light up = 0 to max. 1000 rpm

#### Note:

Each time the machine is switched on it automatically sets a speed of 1000 rpm.



Three LEDs light up = 0 to max. 1500 rpm



#### Display

This machine has the following 21 programs:

Progr. 3	Progr.	Progr.	
2 thread flat hem	2 thread flatlock wide	2 thread flatlock narrow	

Progr. Progr.	4 10	3 thread overlock narrow
Progr.	CI	3 thread overlock wide
Progr.	6	3 thread flat hem
Progr.	7	4 thread overlock
Progr.	œ	chainstitch

,	Progr. 11	Progr. 10	Progr. 9
	Wrapped 2 thread overlock narrow	3 thread overlock with safety-stitch wide	2 thread overlock with safety-stitch wide

Wrapped 2 thread overlock narrow Wrapped 2 thread overlock wide thread rolled hem Wrapped 3 thread overlock narrow Wrapped 3 thread overlock narrow

Progr. 12 Progr. 13

Progr. 14

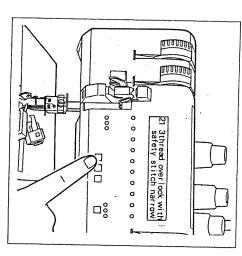
	Progr. 15 Progr. 16 Progr. 17	Wrapped 3 thread overlock wide 3 thread flatlock narrow 3 thread flatlock wide
	rogr. 16	3 thread flatlock narrow
	Progr. 17	3 thread flatlock wide

Progr. 21		Progr. 19
3 thread overlock with safety-stitch narrow	2 thread overlock with safety-stitch narrow	Reinforced 2 thread overlock

# S III Ead Overlock With safety-stitch narrow

#### Note:

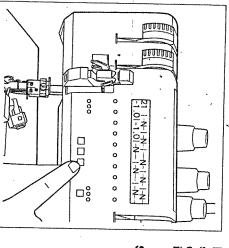
Beneath this display you will find the LED displays for the 10 most important types of stitch (program 1 to 10).

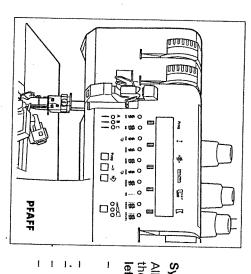


appear in the order 1-21. Keep the key pressed and the programs automatically

the left program key (11). The programs Select the desired program by pressing

run on.





If the mod key (11 right) is pressed the standard characteristics of the stitch are displayed. Set the machine as indicated in the display.

# Symbols above the display:

= program number

= stitch length

ŵ = seam width

= differential feed

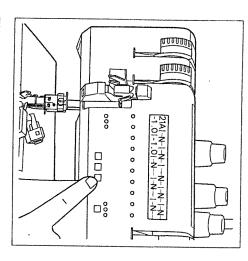
= sewing foot pressure

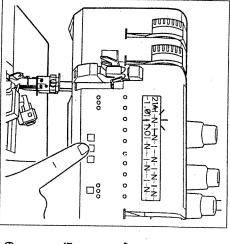
= needle plate

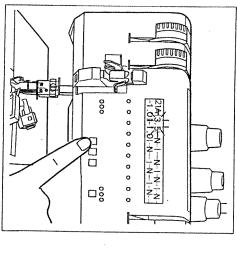
# Symbols below the display:

the thread tensions. They are from the **left** to the **right**. All the symbols under the display refer to

- left overedge needle or chainstitch needle (blue)
- right overedge looper (pink) left or right overedge needle (green)
- left overedge looper (yellow) chainstitch looper (mauve)







# Entering new data

This machine has **21 programs**. The **optimal** values are entered as standard settings for each program. You can change all the data from the standard settings in any program and store them. There are **three** memories (**A**, **B** and **C**) available for each program which appear right behind the program number (e.g. 21 A). Proceed as follows:

- . Select the desired program with the program key (11 left).
- The standard setting appears in the display when the mod key (11 right) is pressed.
- 3. If the mod key (11 right) is pressed again, the letter A appears beside the program number as an indication that you can now enter your own values in memory A. If the mod key (11 right) is pressed again memory B appears and if pressed once more memory C.
- If the cursor key (11 middle) is pressed, the display for the stitch length appears. You can now alter the stitch length with the program key (11 left).
   If you wish to alter other settings,
- 5. If you-wish to alter other settings, press the cursor key (11 middle) until the setting that is to be changed flashes. You can now set them as required.
- 6. Press the **mod key** (11 right) to enter the data in memory. Press the mod key until you come back to the previously selected memory A, B, or C. All the new data has now been entered and is retained when the machine is switched off. If you select your memory again the values that have been entered now flash. They can of course be changed at any time as described.

# **Practical sewing**

Setting the standard thread tension Chainstitch

3 thread overlock with safety-stitch

3 thread overlock stitch

4 thread overlock stitch

2 thread overlock seam

2 thread overlock with safety-stitch

Correction of thread tensions

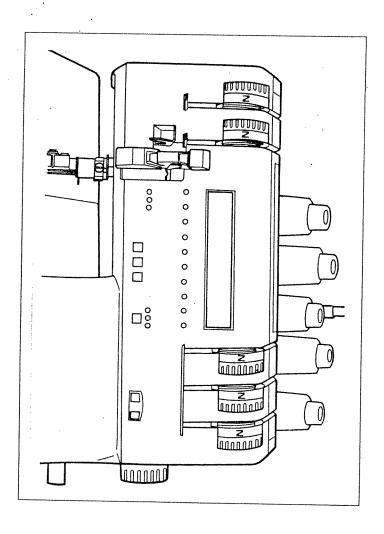
Converter (2 thread seam)

Rolled/flat hem (2 and 3 thread)

Thread chart

Program chart

page 42
page 43
page 43
page 44
page 44
page 44
page 45 - 48
page 49 - 51
page 52, 53
page 54, 55
page 56 - 63

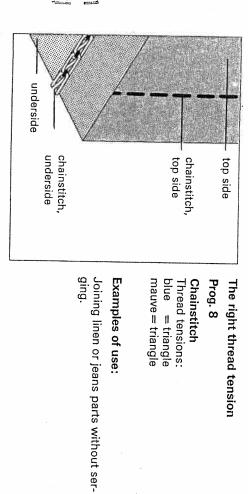


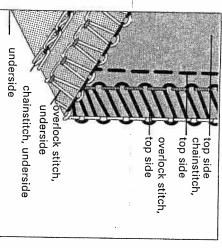
# Setting the standard thread tension

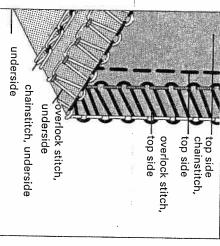
Uniform thread tension depends on the type of fabric and the thickness of the thread. The thread tension should be corrected after the thread interloop has been checked (see page 43 to 47).

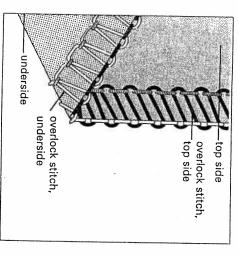
Turn the values indicated on the thread tension thumbwheels to the corresponding colour symbol.

If you are using needle A (only for chainstitch) you must turn the value to the blue triangle. If you are using needles B and C turn to the dots. The mauve tension setting is only used for chainstitch.









#### Prog. 21

#### blue (narrow) Thread tensions: 3 thread overlock with safety-stitch

green = dot mauve = triangle yellow = dot pink = dot = triangle

### Examples of use:

Joining seams on blouses, shirts, jeans and bed linen with serging seam.

#### Prog. 4 or 5

### wide) 3 thread overlock seam (narrow or

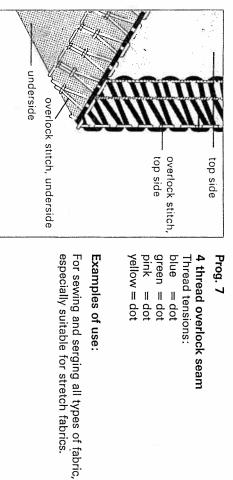
green = dot pink = dot yellow = dot Thread tensions:

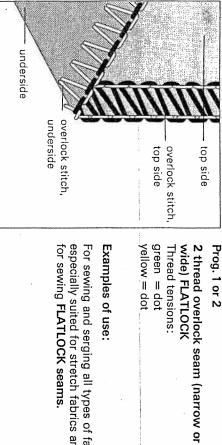
### Examples of use:

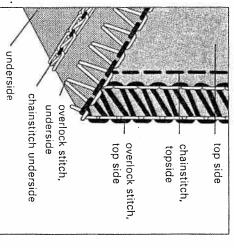
For serging all fabric types.

The right thread tension

# Chainstitch Thread tensions: blue = triangle mauve = triangle







For sewing and serging all types of fabric, especially suited for stretch fabrics and for sewing **FLATLOCK seams**. Examples of use:

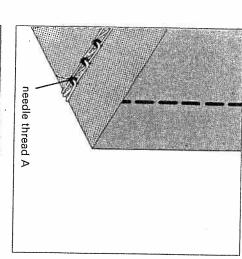
### Prog. 9 or 20

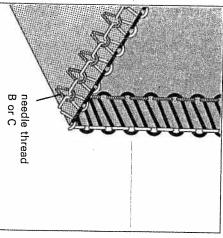
blue = triangle 2 thread overlock with safety-stitch (wide or narrow) Thread tensions:

mauve = triangle yellow = dot green = dot

### Examples of use:

For sewing and serging all types of fabric.





# Correcting the thread tension:

The tension can be set between -5 and +5. It must be turned either to the - or + range depending on the seam appear-

Towards – = looser tension

Towards + = tighter tension

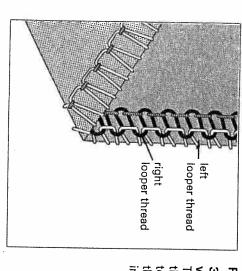
#### Chainstitch

turned towards +. loose. The blue thread tension must be The thread tension of needle A is too

#### Prog. 4 or 5

3 thread overlock seam (narrow or

be turned towards +. too loose. The green thread tension must The thread tension of needles B or C is wide)



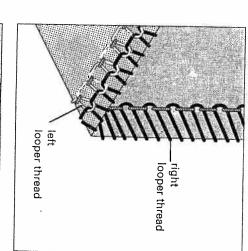
#### Prog. 4 or 5

3 thread overlock seam (narrow or wide)

thread tensions must be adjusted accordingly by turning to - or +. The right looper thread is too taut (pink thread tension) or the left looper thread is too loose (yellow thread tension). Both

left looper thread

right looper thread



wide)

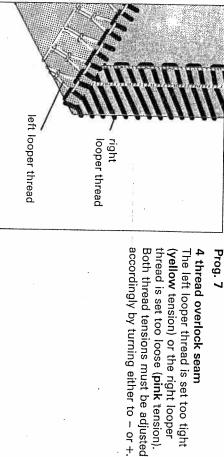
3 thread overlock seam (narrow or

Prog. 4 or 5

(pink tension) or the left looper thread is set too tight (yellow tension). Both thread tensions must be adjusted accord-

The right looper thread is set too loose

ingly by turning to + or -.

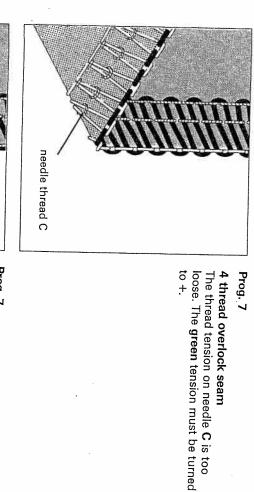


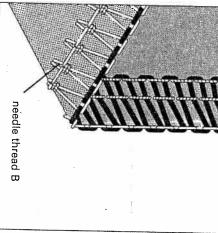


thread is too tight (pink tension). Both thread tensions must be adjusted accord-4 thread overlock seam ingly by turning either to + or -. The left looper thread is set too loose (yellow tension) or the right looper



#### Prog. 7





Prog. 10 or 21

3 thread overlock with safety-stitch

(wide or narrow)
Since the 3 thread overlock with safetystitch is a combination of chainstitch
and a 3 thread overlock seam, you can find the way to adjust these seams on pages 45 and 46.

#### Prog. 7

# 4 thread overlock seam

loose. The blue tension must be turned The thread tension of needle B is too

Prog. 9 or 20

2 thread overlock with safety-stitch (wide or narrow)
Since the 2 thread overlock with safety-stitch is a combination of chainstitch and a 2 thread overlock seam, you can find the way to adjust these seams on pages 45 and 51.

3 thread overlock seam (narrow or wide)
The 3 thread overlock seam is sewn with two looper threads and one needle thread (needle change page 29). The set seam widths 3 to 5 mm in the window (19) only apply to needle C.

If needle B is used, the setting is increased by 2,2 mm (seam width 5,2 to 7,2 mm).

Needle width min. 5,2 mm, max. 7,2 mm	5,7 mm	Standard needle width N	Needle B
Needle width min. 3 mm max. 5 mm	3,5 mm	Standard needle width N	Needie C

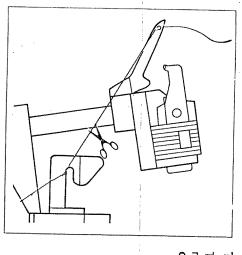
1.

#### Converter

A serging seam is generally sewn with 3 threads. If you connect the **converter** you can dispense with one thread i.e. you just continue to sew with **2 threads** and thus save a lot of thread. Wherever a 2 thread seam is enough i.e. for elastic materials and materials that hardly fray, you can still make neat edges with less thread. You can also make **very effective fancy seams** with the converter using **mercerized cotton**.

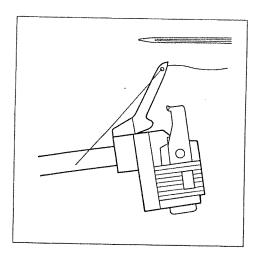
All seams that are sewn with the converter (38) are only sewn with the left looper thread (yellow thread path) and with one needle thread.

Exception: Prog. 19 is sewn with two needle threads and the left looper thread.

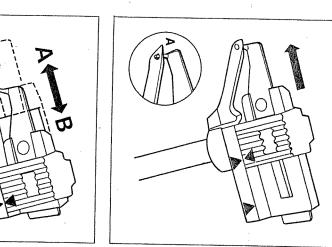


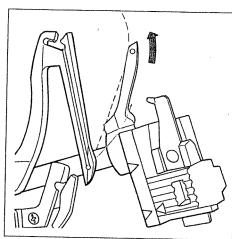
# To switch on the converter

Turn the hand wheel until the right overedge looper (37) is situated to the right of the needle.



To use the converter (38) you must cut off the right looper thread and pull it out of the looper eye.





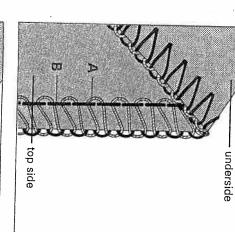
The left hand thread that runs over the right looper must be pulled over the point of the right looper in the direction of the arrow as in this illustration.

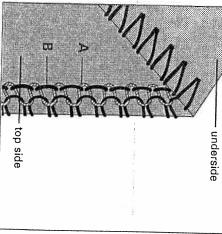
Push the slide of the converter to the left until the triangles are in line. The point of the slide catches into the eye of the looper (Fig A).

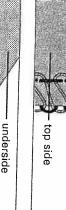
Converter switched on - position A Converter switched off - position B

hand looper thread jumps from the point of the right looper. Switch the converter (38) off in this position (position B). To switch the converter off
Turn the hand wheel slowly until the left

Thread the right looper (see page 14).







rectly set.

lock seam with the thread tensions cor-This illustration shows the 2 thread over-

2 thread overlock seam (narrow or wide) FLATLOCK

Progr. 1 or 2

with needle C = 3.5 mm (range from 3 - 5 mm)

Standard seam width

with needle  $\mathbf{B} = 5.7 \text{ mm}$  (range from 5.2 - 7.2 mm)

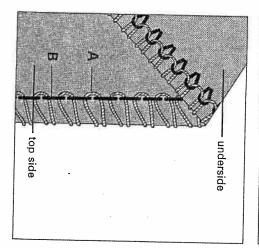
Standard seam width

2 thread overlock seam with converter

# Ways of correcting the thread tensions

## 2 thread overlock seam (narrow and wide) FLATLOCK Prog. 1 or 2

tensions must be turned accordingly to + loose (green tension). The two thread Looper thread A is set too tight (yellow tension) or needle thread B or C is too



gly either to + or -. is too tight (green tension). The two thread tensions must be turned accordingly. The looper thread A is set too loose (yellow tension) or the needle thread B or C

# Prog. 3, 6, 13 or 18

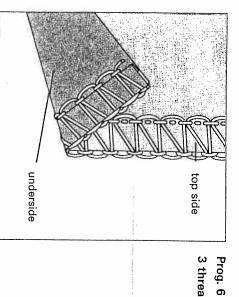
### Rolled/flat hem

A rolled/flat hem is used for light, thin fabrics and also creates a decorative edge. It is a very simple way to add a professional touch to cloths, scarves and valance.

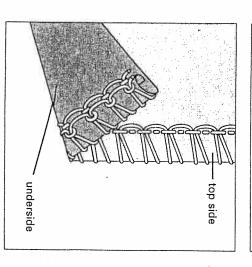
To do so just convert the machine as indicated in the display.

The rolled hem can only be sewn with the **needle C** and you must also replace the **needle plate N** with the **rolled hem plate R** (see page 30, 31).

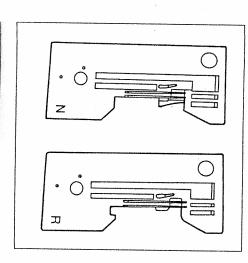
The best suited threads are textured thread (bulk thread) as well as polyester thread. Only textured thread should be used for the looper.



3 thread flat hem

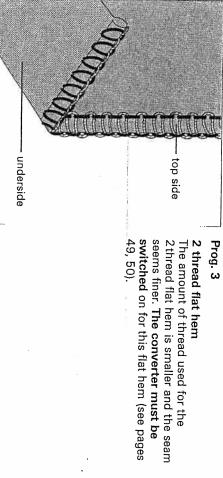


3 thread rolled hem Prog. 18



# Needle plates N and R

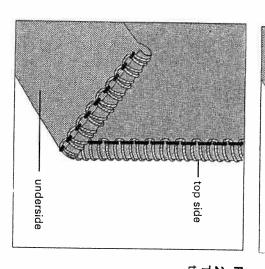
The needle plate  ${\bf R}$  must be used for all rolled hems.



Prog. 3

## Prog. 13

2 thread rolled hem
The converter must be switched on for this rolled hem (see pages 49, 50).



1.1	Thread chart for the 3 thread overlock seam with safety-stitch	ead overlock sea	m with sa
Fabric- weight	Fabric	lype of stitch	Ihread
Light fabrics	organdy, fine knit, taffeta, silk, lining	chainstitch	cotton no. 80 – 100
	fabric		1 5.
,		overlock stitch	cotton no 80 – 100
			silk no. 80 – 100 synthetic thread no. 70 – 140
Medium- weight fabrics	cotton, tricot, linen, children's fabrics	chainstitch	cotton no. 60 – 100 silk no. 50 – 100 synthetic thread
		overlock stitch	cotton no. 60 – 100 silk no. 50 – 100 synthetic thread no. 70 – 140
Heavy fabrics	tweed, jacket-cloth, denim, heavy cloth	chainstitch	cotton no. 40 – 60 silk no. 40 – 60 sometic thread no. 70 – 140
		overlockstitch	Baumwolle no. 40 – 60 synthetic thread no. 70 – 140
,	knits	chainstitch	cotton no. 40 – 50 silk no. 50 – 100 synthetic thread no. 70 – 140
-		overlock stitch	synthetic thread no. 70 – 140

2 or 3 thread rolled hem	Knits:	Heavy fabrics: tweed, jacket cloth, denim, heavy cloth	Medium-weight fabrics: cotton, tricot, linen, children's fabrics	Light fabrics: organdy, fine tricot, taffeta, silk, lining fabric	Fabric weight	Thread chart for the 2,
polyester thread no. 120 – 140 textured thread (bulky thread)	cotton no. 40 – 60 silk no. 40 – 60 synthetic thread no. 70 – 140	cotton no. 40 – 60 silk no. 40 – 60 synthetic thread no. 70 – 140	cotton no. 60 – 100 silk no. 50 – 100 synthetic thread no. 70 – 140	cotton no. 80 – 100 silk no. 80 – 100 synthetic thread no. 70 – 140	Thread	t for the 2, 3 and 4 thread overlock seam
1,0 – 2,0 mm	2,0 – 4,0 mm	2,0 – 4,0 mm	2,0 – 4,0 mm	2,0 – 4,0 mm	Stitch length	k seam

### Program chart

The values for thread tension, stitch length, needle thickness and the differential feed settings are basic settings and must be altered or corrected depending on the type of fabric, fabric thickness and thread.

The differential feed setting depends on the type of fabric (see page 28). All the possible types of stitch and the **settings that are necessary** are listed in this chart.

T)		Prog. 3 2 thread flat hem	טטט	Wice	Prog. 2 2 thread flatlock seam	זססס	THE PROPERTY OF	Prog. 1 2 thread flatlock seam				Program no.: Stitch type
heavy	medium	light	heavy	medium	light	heavy	medium	light		State 1		Material (see page 54, 55)
									· blue	7 7 7		Needle thread tension
	<u>!</u> ယ	-3	5	. I	CJ I	l Gi	! 51	l Oi	green	구 <b>고 구</b> 000000000000		thread sion
									pink .	± Z ±	1	Ē
	+	+	+ 2	+ 2	+ 2	+ 2	+ 2	+ 2	yellow	± Z ±		Looper thread tension
		,							mauve		1	ad
N - 3	Z	1 N	N - 3	z	1       	N   3	z	1 - N		Č		Sewing foot pressure
	1 to 1,5			z			Z		-			Stitch length

#### Note:

This information about the thread spools, position of the looper disengaging lever and the converter position is only to be found in this chart (not in the display).

				į.	
			•	0 0	Thre
					Thread spool
80 12	90	90 14	A B C		Needle
R	Z	Z			Needle plate
Z	z	Z	_		Differential feed setting
		•	0	0	Lo
•	•	•			Looper disengaging lever
•	•		A	An P	
			В		Slide position of converter

											while they we is									<b></b>
		Prog. 9  2 thread overlock seam with safety-stitch (wide)			Prog. 8 Chainstitch			Prog. 7 4 thread overlock seam		Shoomananana	Prog. 6 3 thread flat hem		Amananana Amananana Amananana Amananana Amanananana Amanananana Amananananananananananananananananananan	Prog. 5 3 thread overlock seam (wide)	No.	Chamanan	Prog. 4 3 thread overlock seam (narrow)		,	Program no.: Stitch type
heavy	medium	light	heavy	medium	light	heavy	medium	light	heavy	medium	light	heavy	medium	light	heavy	medium	light			Material (see page 54, 55)
+	z	- 4	+	z	z	Z	<u> </u>	j 										blue	표 Z 노	Needle ten
J UJ	၊ တ	ا ت				z	<u> </u>	-2		Z	Z	z	Z	Z	Z	Z	z	green	구 <b>도</b> 구	Needle thread tension
						z	z	Z		+	+	z	z	Z	z	+ ω	+ ω	pink	± Z ±	
+2	+2	+2				z	Z	z		z	z	z	z	, Z	Z	+	+	yellow		Looper thread tension
z	z	ν.	z	Z	z			-										mauve	± Z ⊥	ad
N   3	Z	1-N	N – 3	Z	1-N	N - 3	Z	1- N	N – 3	z	1 1 2	N - 3	Z	1-N	N-3	Z	1     Z		Ķ	Sewing foot pressure
	Z			z			z			1 to 1,5			z	·		Z				Stitch length

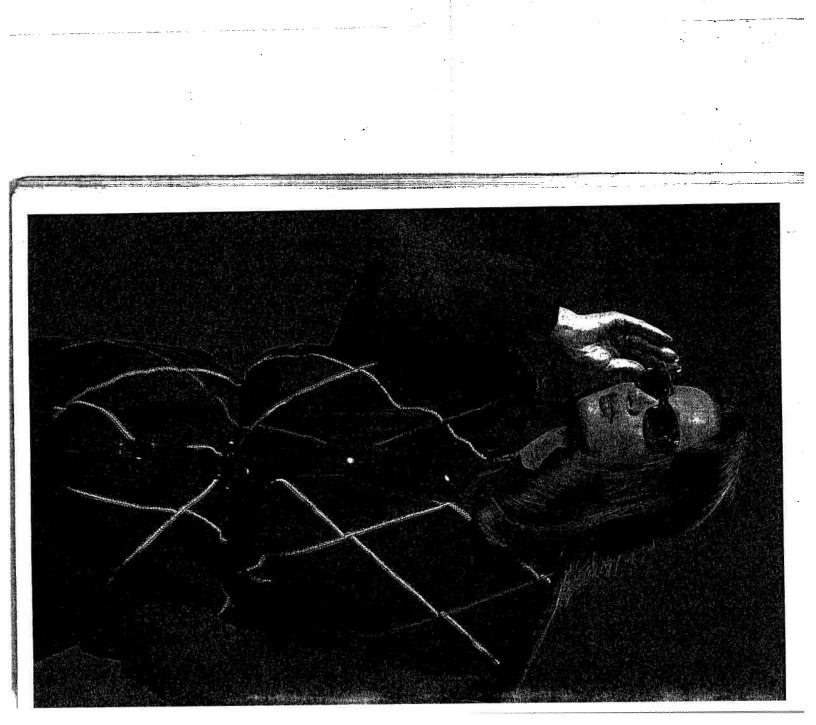
				!		
				:		
						hread
					\	Thread spool
90 14	90 14					>
90	-	90		90		Needle Needle
		90 14	80 12		90	C de
Z	z	z	æ	z	z	Needle plate
			,			plate
Z	Z	z	z	z	z	Differential feed setting
						g tia
	•				,	o diser
· _						Looper
•	,	•	•		•	Looper disengaging lever
•				:		1
				2		settii conv
	•	•	•	•	8	Slide setting of converter B
				<u> </u>		

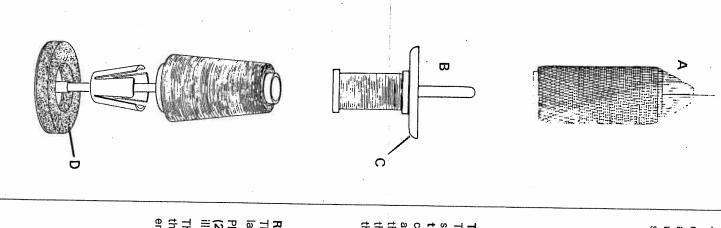
, the program of A. S. S.	recent of administration and an extraction of the second o	Andrew State (State (St	en regentjulik (de 1844 als 1844) Marija (d. 1884) en er mennen Length (d. 1884) en er mennen	and Mahayaman harris and a second of the sec	emingrous in order or con-	- Agging and State a		era e en e tribje met e electrico. En electrico de electr	Print of Acceptance when the con-	ALAMATA COMPANIA		and interest exercises				angus arte e		÷		
	seam (wide)	Prog. 15 Wrapped 3 thread overlock		seam (narrow)	Prog. 14 Wrapped 3 thread overlock			Prog. 13 2 thread rolled hem	W	Sealil (Wide)	Prog. 12 Wrapped 2 thread overlock		seam (narrow)	Prog. 11 Wrapped 2 thread overlock		Salety-Suitch (World)	Prog. 10 3 thread overlock seam with			Program No.: Stitch type:
heavy	medium	light	heavy	medium	light	heavy	medium	light	heavy	medium	light	heavy	medium	light	heavy	medium	light			Material (see page 54, 55)
															+	Z	Z	blue	7 Z 7	Needle thread tension
z	<u> </u>	<u>-</u>	2	-	<u>-</u>		z	z	z	z	z	-	i 1	-	+ -	z	z	green		thread
! &	1 5	l on	l Un	l U	! On								:		+ ω	z	z	pink		Lo
+ ω	+ ω	+ ω	+ 4	+ ω	+ ω		z	z	:	-	1	-	<u></u>	느	+ -	z	z	yellow	± Z <u> </u>	Looper thread tension
													1 10 10 10 10 10 10 10 10 10 10 10 10 10		z	z	z	mauve		ad
N - 3	z	1 2	N-3	z	-1 -1 -2	N - 3	Z	1-N	N - 3	Z	1 - N	N - 3	2	1 - N	N - 3	z	1-N		Ğ	Sewing foot pressure
	z			z			1 to 1,5	L	-	z	<u> </u>		Z			z				Stitch

				Page 1		
				ì		
		<u> </u>	<del></del>			Thm
						Thread spool
						000
						•
					90 14	D Confi
90			90 14		90	Needle Needle
	90 14	80 12		90 14		
z	Z	D	z	Z	Z	Needle plate
Z	Z	Z	z	Z	Z	setting setting
			·			o disenga
•	•	•	•	•	•	Looper disengaging lever
		•	6	•		A
•	•				0	position of converter B

	Foliable on Account on						THE PERSON AND THE			n + 6.1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
[ <u> </u>		യൂ	:		g 2 <b>p</b>		H	g		Ę	ω <u>π</u> ο		<b>E</b>	, ω <u>τ</u> ο		Ħ :	യയ			
	Salety-Sulley (Markow)	Prog. 21 3 thread overlock seam with	DOC		Prog. 20 2 thread overlock seam with			Prog. 19 reinforced 2 thread overlock		Annonononononononononononononononononon	Prog. 18 3 thread rolled hem	700	A STATE OF THE PARTY OF THE PAR	Prog. 17  3 thread decorative seam serving (wide) flattock	700		Prog. 16 3 thread decorative seam			Program No.: Stitch type
heavy	medium	light	heavy	medium	light	heavy	medium	light	heavy	medium	light	heavy	medium	light	heavy	medium	light			Material (see page 54, 55)
+	z	z	+	z	Z	z	! 											blue	호 고 고 10000000000000000000000000000000000	Needle thread tension
+	z	z	l GJ	l Øī	l Sī	z	<u> </u>	<u> </u>		z	z	1 51		QJ I	l G	l Gi	l Gi	green	구 <u>도 구</u> 00000000000	thread
+ ω	+ ω	+ ω								z	z	+	+	+	+	+	+	pink		
+	+ -	+	+2	+2	+2		l 			+ ω	+ω	+4	+ 4	+	+ 4	+ 4	+4	yellow	0000000000 ± Z L	Looper thread tension
z	z	z	z	z	z								2					таиче		ad
N - 3	z	1-N	N-3	Z	1-N	N - 3	Z	1-N	N - 3	Z	1 - N	N I 3	Z	1 - N	N - 3	Z	1 – N		Ğ	Sewing foot pressure
-	z			Z			Z			1 to 1,5			z			Z				Stitch

<del></del>			•			
				Į.		
						Thread spool
<u> </u>						spool
90	90 14	·		,		>
		90 14		90 14		B B Reedie
90	90 14	90 14	80 12		90	
z	Z	Z	7D	Z	Z	Needle plate
Z	z	Z	Z	Z	Z	Differential feed setting
	=					o disenga
•	•		•	•	•	Looper disengaging lever
	•	•		4		A
•			•		•	Slide position of converter A B





as it prevents synthetic threads from unravelling so easily and slipping off the spool (Fig A). ories (see page 66) is particularly useful Thread spool net from the access-

thread unreeling disc on the bottom of the reel pin with the rounded end C to the bottom as in fig. B. and put on the thread spools. Place the The thread unreeling disc from the accessories (see page 66) is used for smaller centering pieces from the thread reel pin thread spools. Remove the thread spool Thread unreeling disc

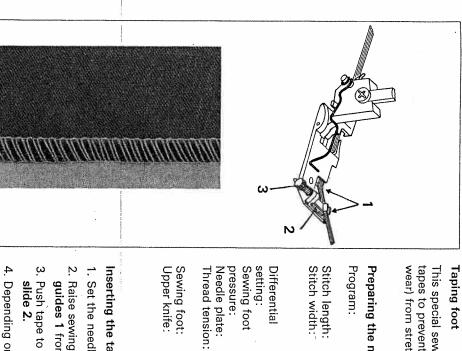
Reel disc (special accessories)
The reel disc **D** is helpful when using large thread spools (5.000 – 10.000 m).

Place the thread spool centering piece illustrated. (27) upside-down on the reel pin (25) as

ensures that the thread runs smoothly. The reel disc prevents the loops of synthetic threads from slipping down and

# Chart for the combination of sewing feet and needle plates

	Lace sewing foot	Bead sewing foot	Cording foot	Gathering foot	Elastic tape sewing foot	Gimp thread sewing foot	Blindstitch foot	Taping foot	Combination foot	Combination foot	Sewing foot
	z	æ	Z	z	z	æ	z	Z	R	Z	Needle plate
·	special accessory	special accessory	special accessory	special accessory	normal accessory	normal accessory	Accessory				
	29-924 993-71/297	29-924 993-71/296	29-924 993-71/298	29-924 993-71/293	29-924 993-71/292	29-924 993-71/294	29-924 993-71/291	29-924 993-71/295	29-924 993-71/287	29-924 993-71/287	Part no.



# Inserting the tape:

(press mod key) taping foot switch off

see display

normal needle plate N

Z

- 1. Set the needle at highest point.
- 2. Raise sewing foot and place tape in guides 1 from the right.
- 3. Push tape to **right stop** with the **slide 2.**
- 4. Depending on the width of the tape, adjust its position in relation to the needle with adjusting screw 3.
- 5. Insert fabric and sew a test seam.

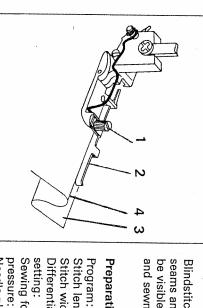
#### Taping foot

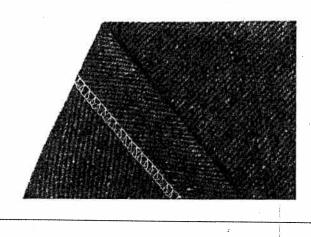
## Preparing the machine: 4 or 5 depending on width of tape

a tape width of 4 - 9 mm) 3 - 5 (adjustable for

z

This special sewing foot is for sewing on tapes to prevent stretch materials (knitwear) from stretching.





70

- Before sewing cut 2 cm off hem part
   This prevents displacement of the seam.
- Place the prepared hem under the sewing foot so that the folded hem 3. The needle penetration in the outer run along the edge of guide 2. part 3 is under the edge guide 2. The crease line 4 of the outer fabric must

adjust the edge guide 2 so that only one thread of the outer fabric is

fabric is regulated as follows:

Loosen the adusting screw 1 and

caught by the needle.

and sewn in one operation. Blindstitch is ideal for skirt and trouser seams and wherever the seam should not be visible. The hem is trimmed, serged

# Preparation of the machine:

Stitch length: Stitch width: Differential Program:

setting: Sewing foot

Needle plate:

see display normal needle plate N

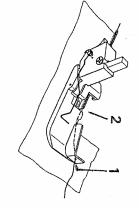
Thread tension:

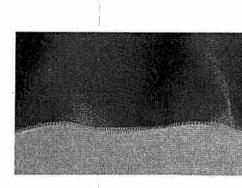
blindstitch foot (press mod key)

Sewing foot: Upper knife: switch on

Sewing:

Blindstitch sewing foot





Upper knife: Sewing foot:

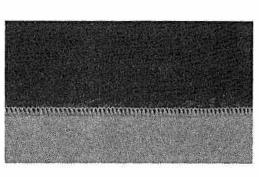
(press mod key) gimp thread sewing foot engaged

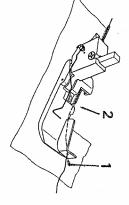
Thread tension: Needle plate: pressure:

see display

plate R

rolled seam needle





# Inserting the gimp thread

- 1. Raise the sewing foot and set the needle in its highest position.
- 2. Place the fabric under the sewing foot.
- Thread gimp thread (cord) through the hole 1 and then place it in guide 2 of the sewing foot shoe.

4. Sew a test seam.

# Gimp thread sewing foot

This special sewing foot is used to sew in gimp threads (cords, synthetic threads) ces an undulating or stiffer hem (e.g. on up to a thickness of 1,0 mm. This produ-

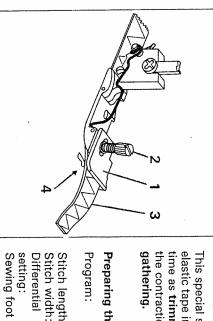
# Preparing the machine:

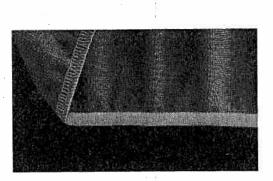
Program: 13 (switch converter

Differential

setting: Sewing foot Z

Stitch length: Stitch width:





# Inserting elastic tape:

- 1. Loosen the screw (2) so that the brake (1) at the opening is opened about 1,5
- 2. Insert elastic tape (3) and draw it back under the foot.
- 3. Tighten the brake (1) again with screw (2). The lower the screw (2) is tightened up, the greater the pressure of the brake (1) on the elastic tape and the greater the gathering effect.

#### Note:

brake (1) against a slight resistance. stic tape should be drawn through the When the sewing foot is raised the ela-

# Elastic tape sewing foot

gathering. the contraction of the elastic tape time as trimming, serging and - due to elastic tape in one operation at the same This special sewing foot is for sewing on

## Preparing the machine:

Program: width of tape 4, 5 or 7 depending on

Stitch length: Stitch width: 4 to 4,5

N or 3 z

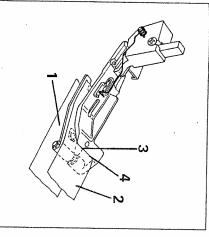
(press mod key)
elastic tape sewing foot normal needle plate N see display

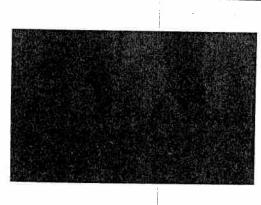
Thread tension: Needle plate: pressure:

engaged

Upper knife: Sewing foot:

- to 2 mm.





## Inserting the fabrics:

- 1. Raise the sewing foot and set the needle in its highest position.
- 2. Insert the bottom ply of fabric 1 between the needle plate and the gathering foot up to the upper knife.
- Place the upper ply of fabric 2 flush with the lower ply (right side to right side) right up to the edge 4 of opening
- 4. Always sew a test seam to decide the desired gathering effect with the differential feed.

#### Gathering foot

two fabrics together and gathering the bottom ply in one operation. This special gathering foot is for sewing

## Preparing the machine:

Program: Stitch length: Differential Stitch width: 7, 10 or 21 N N

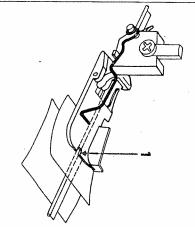
pressure: Needle plate: Thread tension: setting: Sewing foot see display normal needle plate N N or 3

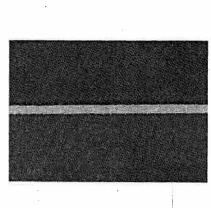
(press mod key)

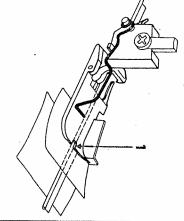
gathering foot engaged

Upper knife: Sewing foot:









Preparing the machine:

# Inserting the fabric plies:

Needle plate: Thread tension:

Upper knife: Sewing foot:

engaged

(press mod key) cording foot

see display

normal needle plate N

setting: Sewing foot

z

Differential Stitch width: Stitch length: Program:

ωz -5

7, 10 or 21

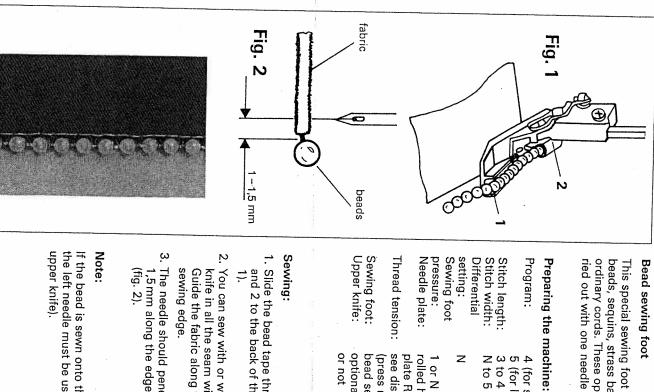
pressure:

N or 3

- 1. Raise the sewing foot and set the needle in its highest position.
- 2. Insert the bottom ply, cording tape and top ply together flush (right side to right side) under the cording foot up to the upper knife. The cording (piping) must be placed in guide 1.
- 3. Lower the sewing foot and sew a test

#### Cording foot

This special sewing foot is for sewing a cording tape between two fabric plies in one operation.



bead sewing foot optionally disengaged

see display plate R

(press mod key)

rolled hem needle

1 or N

Z

or not

#### Sewing:

- 1. Slide the bead tape through guide 1 and 2 to the back of the foot foot (fig.
- 2. You can sew with or without the upper knife in all the seam width settings. sewing edge. Guide the fabric along the right hand
- 3. The needle should penetrate 1 to (fig. 2). 1,5 mm along the edge of the fabric

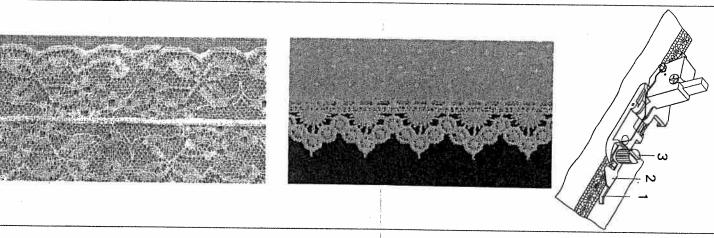
#### Note:

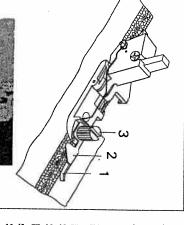
If the bead is sewn onto the fabric edge, the left needle must be used (disengage upper knife).

#### Bead sewing foot

This special sewing foot is for sewing on beads, sequins, strass bands, lead and ordinary cords. These operations are carried out with one needle only.

4 (for small beads) 5 (for larger beads) 3 to 4 N to 5





the fabric underneath). Tighten screw

 When sewing the lace onto the fabric it must simply be run through guide 2 along edge guide 1 (engage upper knife).

guided flush along edge guide 1 (upper knife disengaged).

Always sew a test seam.

#### Lace sewing foot

the workpiece. This special sewing foot is used for sewing lace or borders together or onto

## Preparing the machine:

Stitch length: Stitch width: Program: 1,5 to 2,0

setting: Sewing foot Differential Z

1 or N

see display normal needle plate N

Thread tension: Needle plate: pressure:

lace sewing foot (press mod key)

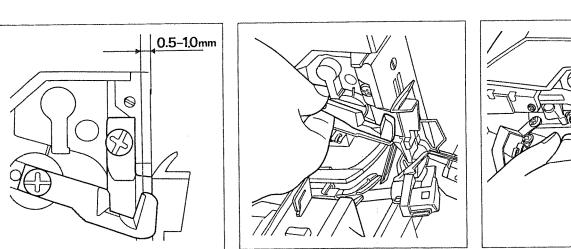
optionally disengaged or not

Upper knife: Sewing foot:

#### Sewing on lace:

- 1. Raise the sewing foot and set needle in highest position.
- 2. Loosen screw 3 and adjust guide 2 so that when sewing the needle penet-rates right at the edge of the lace (and
- 4. If the fabric underneath is not to be both the lace and the fabric must be trimmed when the lace is sewn on,

Sewing problems Specifications	Oiling the machine	Cleaning the knives	Cleaning the needle plate	Changing the light bulb	Changing the knives	Maintenance and malfunction
page 82, 83 page 84	page 81	nage 81	page 80	page 80	page 78, 79	

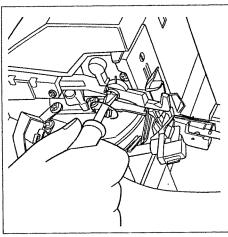


In this position the front edge of the upper knife must be 0,5 to 1,0 mm

lower that the cutting edge of the lower knife. When the upper knife has been

fully adjusted, you can tighten up its

retaining screw.



Changing the upper knife
Switch main switch off
To remove: Take out the upper knife retaining screw (46) with the large screwdriver from the accessories (see page 66) and remove the upper knife (49).

To insert: Insert the new upper knife (49) and tighten its retaining screw loosely.

Turn the hand wheel until the upper knife is in its lowest position.

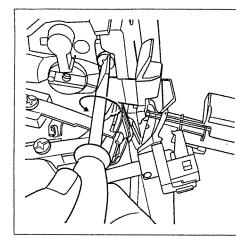
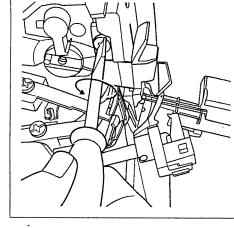


plate and lower knife.

screwdriver from the accessories (see retaining screw (47) with the large knife (see page 32). Undo the lower knife est position and disengage the upper foot as well as the needle plate (see page 30, 31). Raise the needles to their highing knob (17) to 3. Remove the sewing

page 66) and remove the screw, pressure



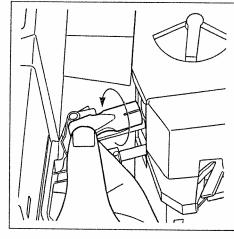
Changing the lower knife

Switch main switch off

To remove: Set the seam width adjust-

ing screw.

the lower knife to the same level as the needle plate. Now **tighten up** the retainupper knife. Place the pressure plate on between the lower knife holder and the needle plate. Bring the cutting edge of plate with the retaining screw. Insert the Secure the lower knife and the pressure pointing backwards to the machine. longer part with the slanted corner is the hole in the lower knife so that the To insert: Slide the new lower knife (48)

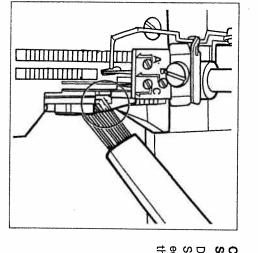


# Changing the light bulb Switch main switch off

To remove: With the tool from the accessories (see page 66) press the light bulb right into its holder. At the same time twist the bulb with half a turn, anticlockwise and remove it.

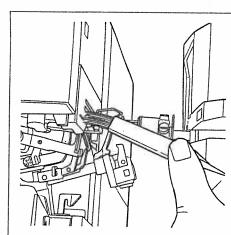
To insert: Insert the light bulb in the holder with the special tool and twist it until the pins on the bulb catch in place.

Now press the bulb right into the holder, twisting it clockwise until it is securely fixed. **Note:** The maximum power of the bulb is 5 watt.



# Cleaning the needle plate Switch the mainswitch off

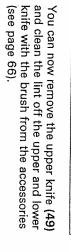
Disengage the upper knife (see page 32). Set largest stitch width. Clean the marked area carefully using the brush from the accessories.

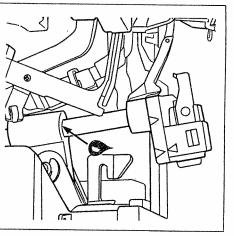


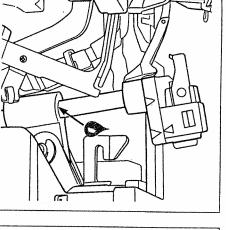
### Cleaning the knife

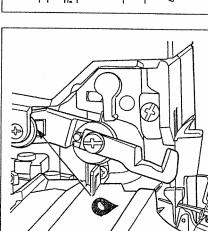
# Switch the main switch off

Take out the upper knife retaining screw (46) with the screwdriver supplied.









### Oiling the machine

Before using your machine you should make a habit of lightly oiling the marked points with the oil from the accessories (see page 66). One or two drops of **PFAFF sewing machine** oil are enough. All the other parts are made of a special material and do not need to be oiled.

# Sewing problems and their solutions

The machine was developed for the simplest operation possible. There are no complicated settings. It is however possible that the following problems arise as a result of small errors in the settings and operation. These problems can be easily solved if you follow these instructions.

				ı	
3 or 4 thread overlock seam is irregular. The right looper thread is not sewn.	Stitch formation faulty	Skipping stitches	Thread breaks	Needle breakage	Problem
The converter is in its left position A (see page 50)	Thread tensions wrongly set.	The needle is bent or the point damaged. The needle was not properly inserted. The wrong needle was used. Incorrectly threaded.	Incorrect threading.  The thread got caught.  Thread tension is too tight.  The needle was not properly inserted.  The wrong needle was used.	The needle was bent or the point damaged. The needle was not properly inserted. The fabric was pulled too forcefully.	Cause
The converter must be set in its right position <b>B</b> (see page 50).	Re-set thread tensions (see page 45 — 47 and 51).	Insert new needle (see page 29) Insert the needle correctly (see page 29). Use needle system EL X 705 Thread correctly (see page 13 — 21).	Thread properly (see page 13 – 21). Check if you have caught the thread on the spool stands etc. Correct the tension. (see page 45 – 47 and 51). Insert needle correctly. (see page 29). Use needle system EL X 705	Insert new needle (see page 29). Insert needle properly (see page 29). Do not pull the fabric when sewing.	Solution

4	and the second s	ad New years of the control of the c	nama na skramanana (Mi
 Gathering of the seam.	The fabric is not trimmed neatly.	The machine does not operate although the main switch is switched on.	Problem
The thread tension is too tight.  The differential feed is incorrectly set.  The thread is incorrectly thread and has got caught	Lint between the upper and lower knife. The lower knife is blunt.	The electric power has been cut.	Cause
Reduce thread tension (particularly for light fabrics see page 42 – 47). Correct differential feed (see page 27, 28). Thread correctly (see page 13 – 21).	Clean the knife (see page 81). Change lower knife (see page 79).	Close the looper cover (see page 12).	Solution

# Contents of the cardboard box

Machine
Foot control
Mains cable
Machine cover
Waste box
Workpiece guide plate
Instruction manual

### Specifications

Maximum sewing speed Seam width

Stitch length
Differential feed
Needle plate
Lubrication
Max. sewing foot height
Needle system
Needle size
Number of threads
Dimensions

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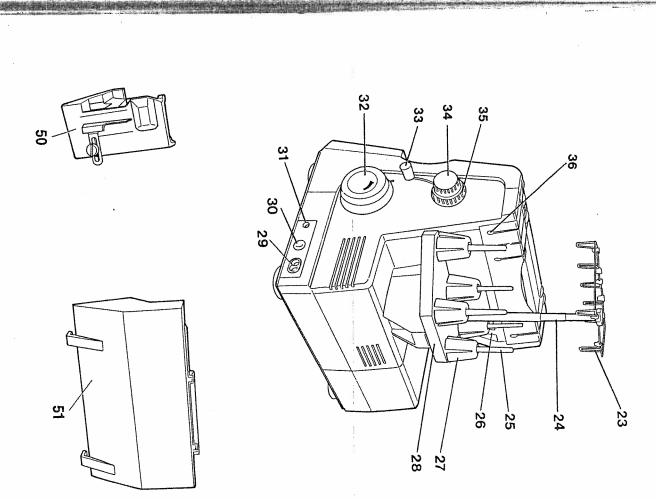
1500 stitches/min
3 to 7,2 mm overlock stitch
7 to 9 mm chainstitch
1 to 4 mm
1 : 0,5/1 : 2
exchangeable N or R
manual
5 + 1,5 mm
EL × 705
80 or 90
2, 3, 4, 5
310 × 330 × 320

0,5 kg

# Parts of the hobbylock 4870

- (23) Thread guide with coloured markings
- (24) Telescopic thread guide
- Spool pins
- Thread cutter
- Spool centeringSpool stands
- Power socket
- Main switch
- Foot control socket
- Hand wheel
- Sewing foot lever
- Stitch length adjusting knob Adjusting ring for the differential feed
- (36) Reverse thread guide

(50) Material guide plate(51) Waste box



G. M. Pfaff Aktiengesellschaft Werk Karlsruhe-Durlach Gritznerstraße 11 76227 Karlsruhe 41

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