

# Instruction Manual

## Sewing Machine NM 1600/1800



# AEG

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## **Important introduction**

**Before using the machine please read the following instructions carefully.**

Take enough time to read it.

By doing that, you'll get a general idea of functioning and of the function of the machine what will help you to work more easily and successfully.

The better you familiarize yourself with the work, the straighter you can use the sewing machine.

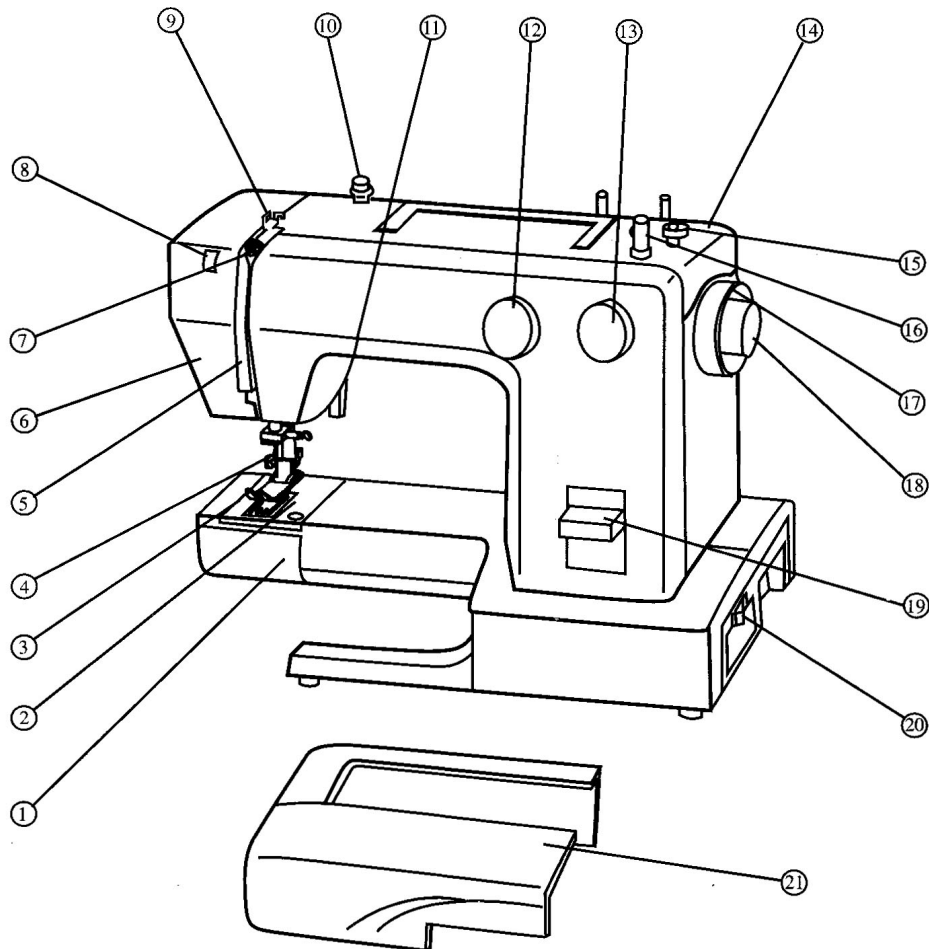
This sewing machine has only been produced for use in the home.

## Important instructions!

Before using the sewing machine, the following instructions should always be followed:

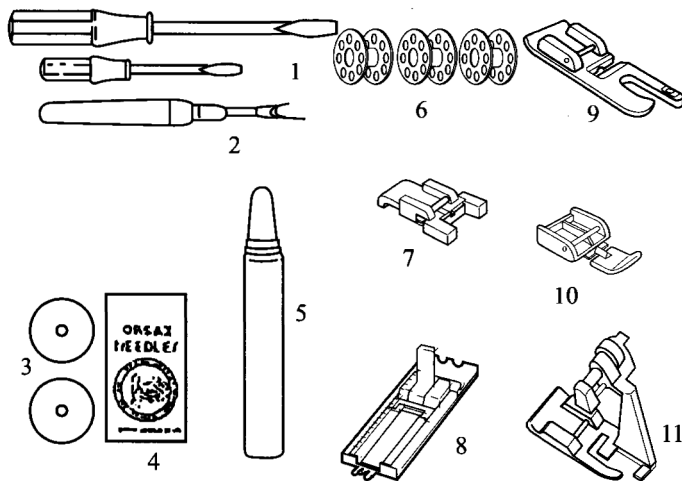
1. Operate the machine with the adequate caution - because of the needle going up and down – and keep an eye at the sewing place while working!
2. Always unplug before changing the light bulb, the needle, the sewing foot, the spool, the needle plate as well as during interruption of work without supervision or during maintenance for reasons of safety.  
Always unplug from the electrical outlet in these cases!
3. The light bulb's maximal power is 15 watts. The sewing machine is supplied with a commercial screw light bulb (**thread name E14**).

## Name of parts



- |                             |                                   |
|-----------------------------|-----------------------------------|
| 1 Bobbin case cover         | 12 Stitch selection button        |
| 2 Needle plate              | 13 Stitch length selection button |
| 3 Presser foot              | 14 Cover                          |
| 4 Needle                    | 15 Thread retainer stopper        |
| 5 Thread cover              | 16 Sewing spool                   |
| 6 Front cover, bulb cover   | 17 Balance wheel                  |
| 7 Thread take-up lever      | 18 Coupling                       |
| 8 Upper threading tension   | 19 Reverse button                 |
| 9 Thread guidance           | 20 Light switch                   |
| 10 Thread retainer guidance | 21 Cloth plate                    |
| 11 Presser foot lever       |                                   |

## Accessory



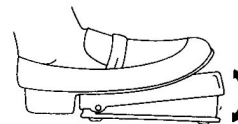
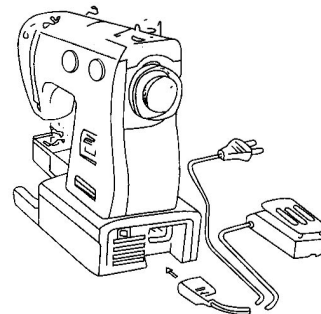
1. screw driver
2. ripper
3. felt plate
4. needles
5. oilcan
6. shuttles
7. sew on button foot
8. buttonhole foot
9. hem foot
10. zipper foot
11. blind stitch foot

## Power supply

Put the coupling plug into the sewing machine.

Put the plug into the wall socket.

(See figure)

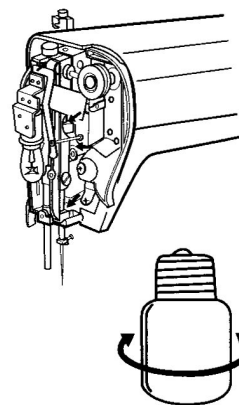


## Change the electric light bulb

The sewing lamp is behind the front cover.

Open the front cover with a screw driver and unscrew the light bulb.  
After that, put in the new light bulb.

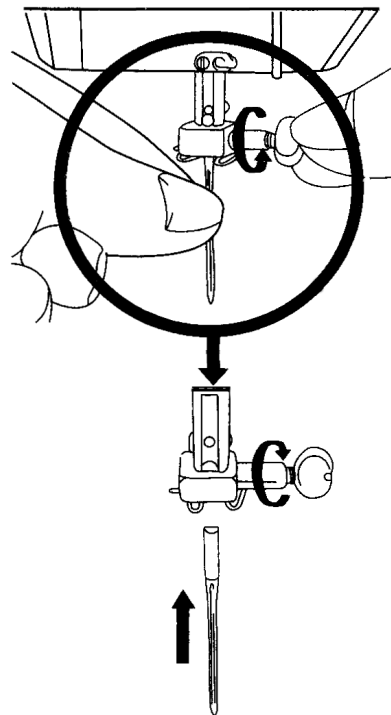
**WARNING! Pull the plug out of the wall socket!**



## Change the needle

Turn the balance wheel into your direction until the needle is in the highest position. Loosen the needle screw and remove the needle from the fixture (see figure).

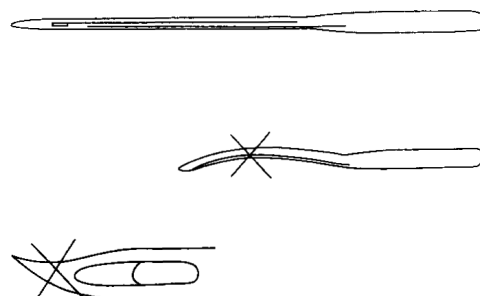
After that, put the new needle into the fixture – with its flat side at the back. Press the needle as wide as possible up into the needle fixture. Tighten the needle fixture screw securely again.



## Selection of the right needle

The needle's thickness is displayed on the shaft.

In any case, do not use a bent or blunt needle!



## Remove and attach presser foot

### Remove:

Turn the hand wheel as wide as you can into your direction until the needle reaches its highest position.

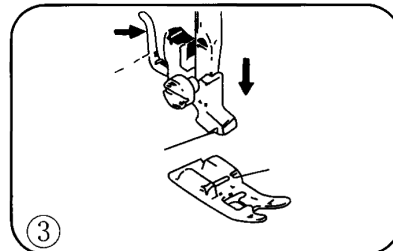
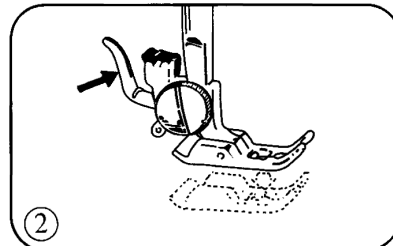
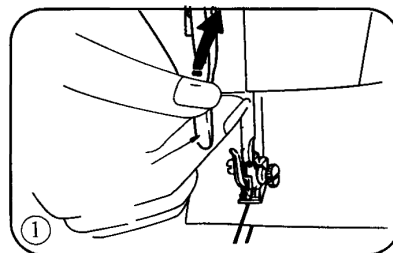
By lifting the presser foot lever you lift the presser foot (1).

The presser foot falls down if you lift the lever at the back of the foot switch (2).

**Warning: Do not use force!**

### Attach:

Put the presser foot on the needle plate so that the groove at the foot is directly situated under the groove of the foot holder.

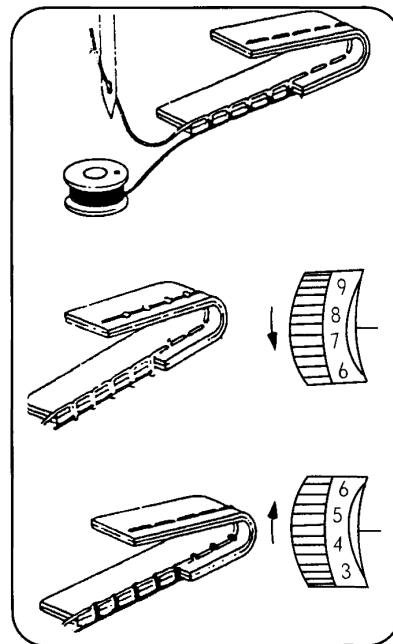


## Adjust the threading tension

If you can pull the thread slightly with a small resistance out of the bobbin, the threading tension is correct.

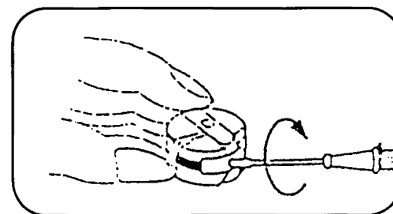
As the lower threading tension is already set by the factory concerning general sewing, it needs not to be regulated very often.

In the case of very light or heavy materials, the lower threading has to be regulated.



## Adjust the lower threading tension:

Turn the screw clockwise to increase the tension.



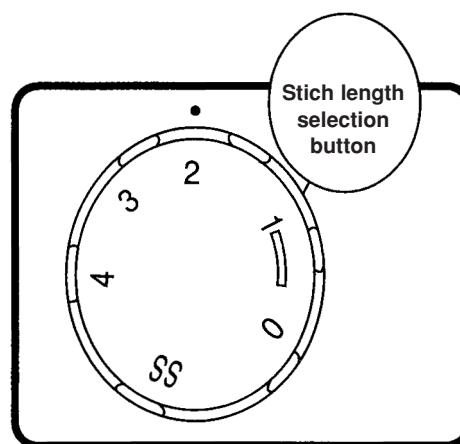


## Stitch length selection dial

To change the stitch length you can turn the selection dial so that the number of the desired stitch length is at the mark.

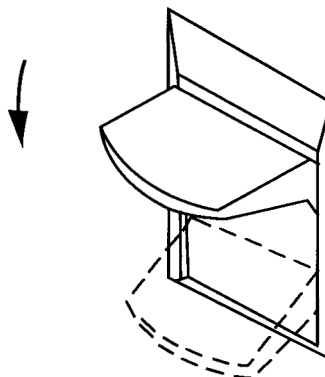
The numbers stand for the approximate stitch length in mm.

The lower the number is the shorter the stitch is.



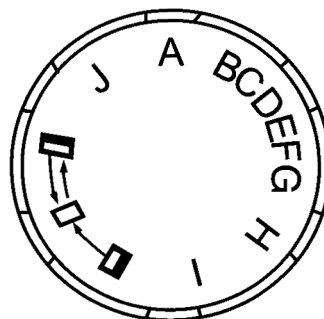
## Reverse stitch

Press the button down to use the reverse stitch.



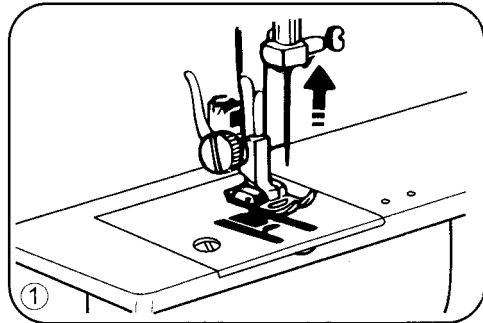
## Stitch selection dial

You can set the desired stitch using the stitch selection dial.

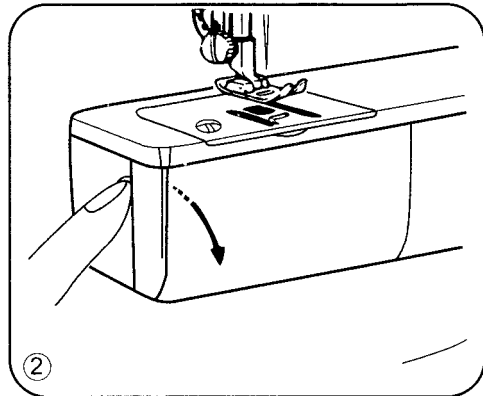


## Remove the bobbin case

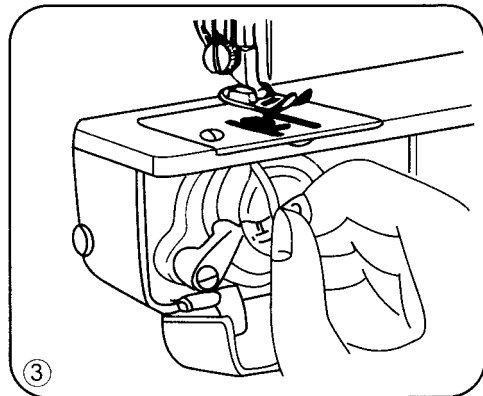
Set up the presser foot, turn the hand wheel into your direction until the thread take-up lever is on its position (figure 1).



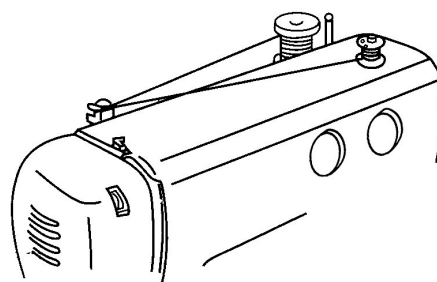
Open the bobbin cover (figure 2).



After that, open the bobbin case and take the case out of the machine (figure 3). As long as you keep the cover of the bobbin case open, the bobbin cannot fall out. As soon as you release the cover, the bobbin falls out.



## Wind the bobbin



Release the hand wheel release by turning the release plate into your direction.

Guide the thread from the thread reel through the thread retainer (figure 2).

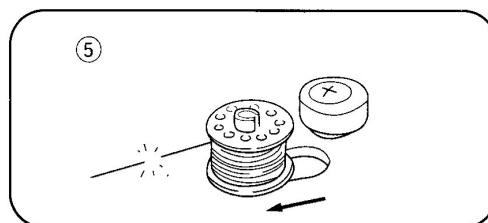
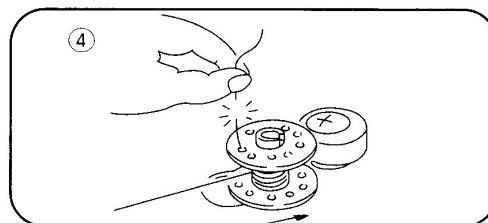
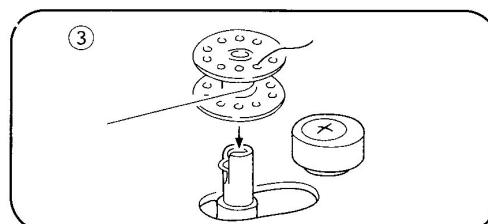
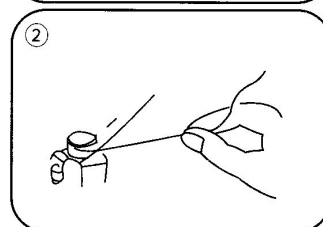
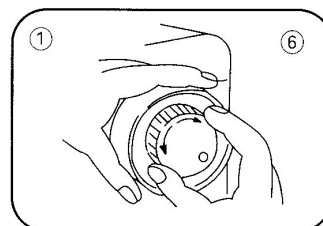
Now, put the end of the thread through the hole in the bobbin (figure 3).

Put the bobbin onto the bobbin thorn so that the end of the thread is on top of the bobbin.

Press the bobbin thorn to the right until you can hear a clicking. Hold the end of the thread tight and start the machine. As soon as the bobbin is wound up a little bit you can let the end of the thread go (figure 4).

If the sewing spool stops, remove the bobbin and cut the thread (figure 5).

Now, tighten the release plate again.

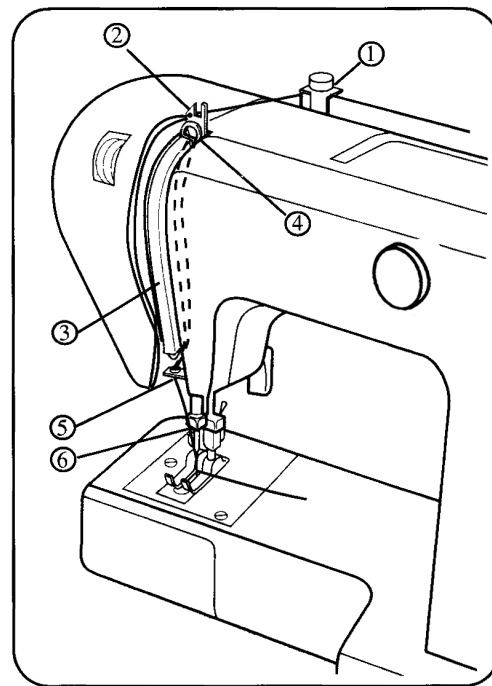


## Thread the upper threading

Put the thread reel on the reel holder so that the thread comes backwards from the reel.

Hold onto the reel with your right hand and lead the thread downwards through the two tension plates from top to bottom.

Lead the thread to the top through the thread giver. Lead the thread giver with a slight pull through the hole of the thread giver. Lead the thread to the needle and thread the needle from front to back.



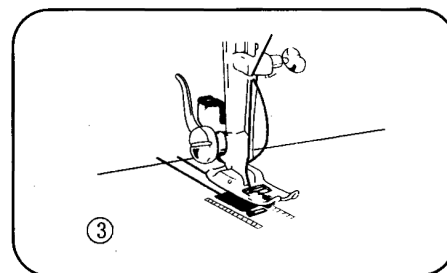
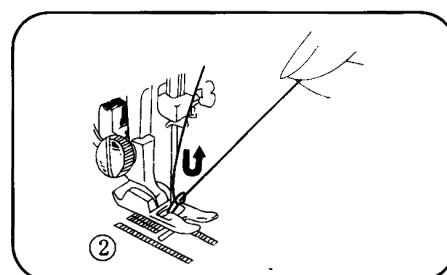
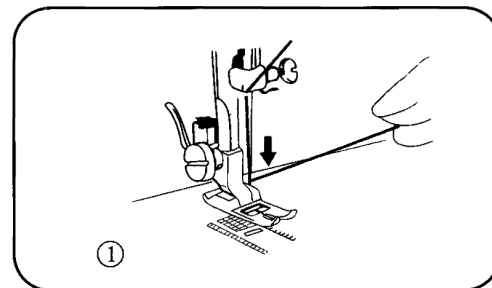
## Draw up lower threading

Put the sewing foot on its highest position. Now, turn the hand wheel with your right hand into your direction until the needle moves down and then it moves up again.

Stop the hand wheel as soon as the needle is on its highest position. Hold on the end of the upper stitch with your left hand.




Pull the upper stitch slightly to the top so that the lower stitch forms a loop (figure 2).

Now, pull out around 5 cm of both threads under the sewing foot to the back (figure 3).

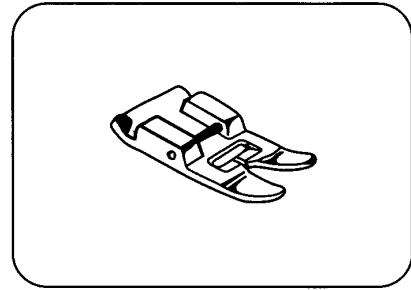


## Straight sewing and zigzag sewing

Presser foot: zigzag foot (figure)

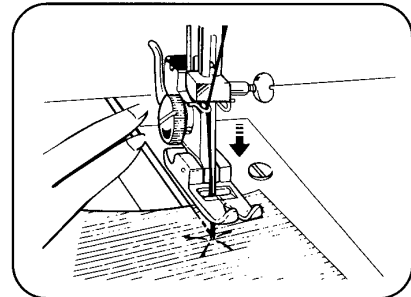
Stitch selection: 1  or  
2 for straight sewing   
3-10 for zigzag sewing 

Stitch length selection dial: 0.3 – 4



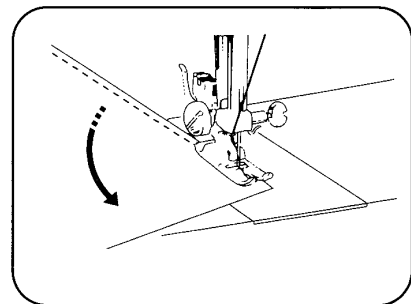
## Start sewing

Make sure that both threads are under the presser foot. While holding the threads with your left hand, turn the hand wheel into your direction and put the needle in the position on the material where you want to start sewing. Lower the presser foot, step slightly on the foot controller and start sewing. To bolt the stitch end you have to sew a few reverse stitches first.



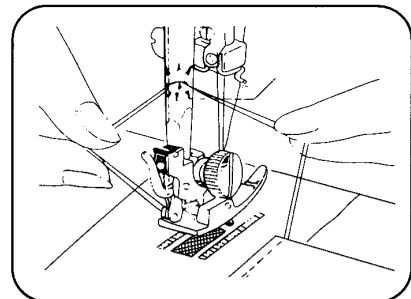
## Change sewing direction

1. Stop the machine; turn the hand wheel into your direction to put the needle into the material. Lift the presser foot.
2. Turn the material in the desired direction.
3. Lower the presser foot and continue sewing.



## Strengthen the stitches

1. Press the reverse button; sew a few reverse stitches to bolt the stitches.
2. To remove the material you have to take up the presser foot and to move the material away into the other direction.
3. The thread cutter is at the backside of the presser foot.



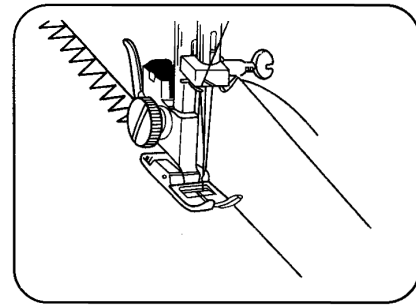
## Tricot stitch

This stitch is especially suitable for darning tears. It is also used to strengthen stretching materials and to sew on applications.

**Presser foot:** zigzag foot

**Stitch selection:** 8 

**Stitch length:** 0.3 – 4



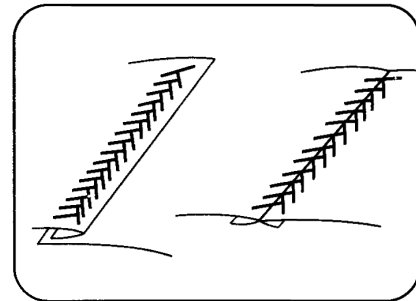
## Witchcraft and herringbone stitch

You can sew stretching materials using this very elastic stitch. The witchcraft stitch is suitable for lycra swimsuits, etc, as a margin stitch for belts or as a decorative stitch.

**Presser foot:** zigzag foot

**Stitch selection:** 

**Stitch length:** s.s. (stretch stitch)



## Zipper insertion

**Presser foot:** zipper foot

**Stitch selection:** 1

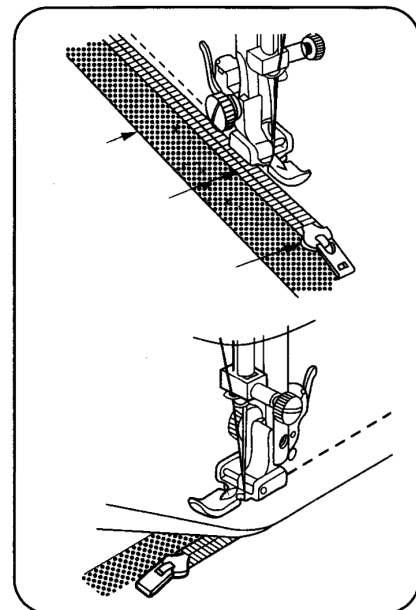
**Stitch length:** 1 – 4

**Sew in right side**

If the foot is clicked into place at the foot holder with the left foot fixture, the needle pricks through the left foot pinhole. By doing that, the right side of the zipper gets sewed on.

### Sew on right side

If you sewed on the right side of the zipper, you have to change the foot into the right position and sew on the left side.




## Make a button hole


**Presser foot:** button hole foot

**Stitch selection:** "A"  "B"  "C" 

**Stitch length:** 0.3 – 1


1. Pull the button hole sole completely forward and start with the symbol: 

Now, you sew forward the left button hole caterpillar according to the desired length (see 1).

2. Switch on symbol: 


while the needle is outside the material.

You sew the first row with 3-4 stitches (see 2).

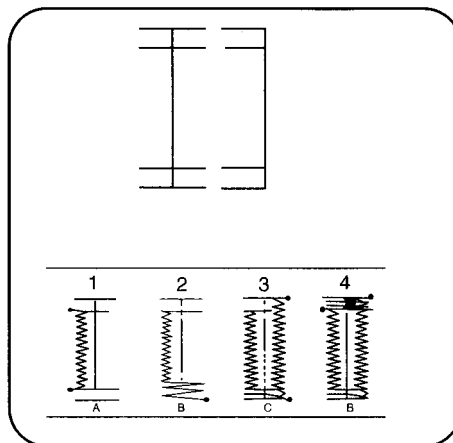
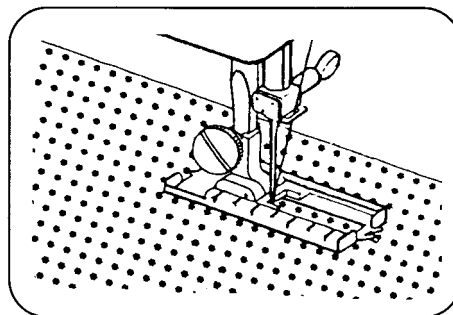
3. Switch on symbol: 

while the needle is outside the material.

Now, you sew the right caterpillar automatically backwards (see 3).

4. Here, you stop the machine while the needle is outside the material and switch on symbol: 

Sew the back row with 4-6 stitches. The button hole is now sewed and can be opened with a dividing knife (see 4).



### Warning:

Sometimes it is better to repeat the sewing process to get a better fixed button hole. Before starting sewing a button hole you should do trial runs and sew one or more button holes on the corresponding material.

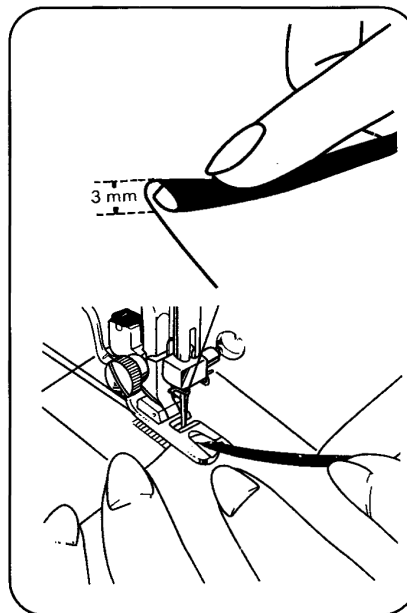
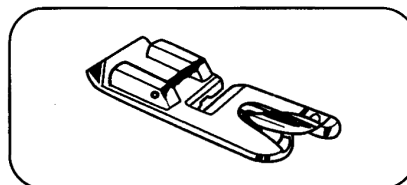
## Hem

**Presser foot:** Hem foot

**Stitch selection:** "1"

**Stitch length:** 1-4

1. Replace the normal foot by a hem foot.
2. Turn up the selvage about 3 mm as shown on the right side.
3. To protect the selvage you have to take in 5 mm from the selvage. For a short moment, stop the machine with the needle in a horizontal position.
4. Pull the selvage into the hem foot and start the automatic hemming. During hemming, fold the material slightly to the left and let the selvage run through the foot as wide as you can.



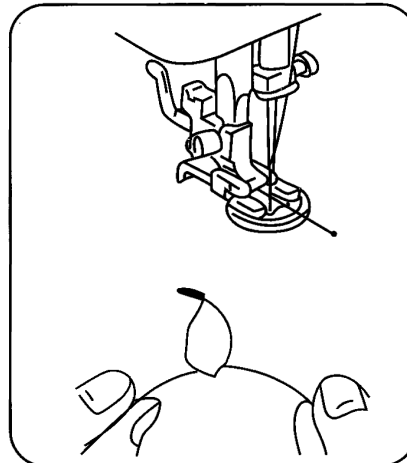
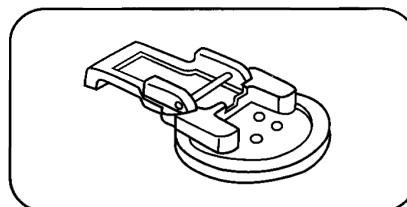
## Button sewing

**Presser foot:** button foot

**Stitch selection:** "3" about "7"

**Stitch length:** 0

The button hole foot is for sewing buttons up to an average size. Insert the foot. Clamp the button by lifting and lowering the presser foot (needle is in a horizontal position). You have to set the needle stop so that the button holes were directly hit by the needle. The first stitches should be steered by the hand wheel to avoid a damaging of the needle.





## Blind hem sewing

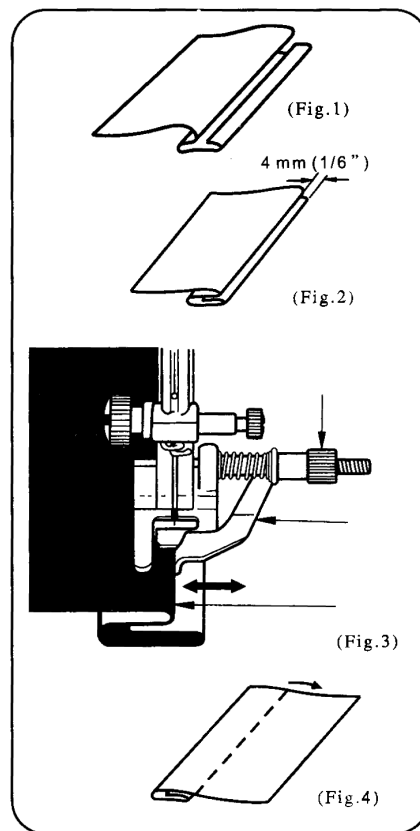
**Presser foot:** blind hem foot

**Stitch selection:** "9" 

**Stitch length:** 1-3

1. Fold the material according to the desired material width (figure 1).
2. On the right side, when you fold back the hem, there has to remain a selvage with the width of 4 mm (figure 2).
3. Lay the hem under the blind stitch foot so that the guidance of the foot goes along the folded hem (figure 3).

The guidance of the blind stitch foot can be changed in that way, that the needle only hits the selvage of the hem using the biggest zig-zag over-lock so that you can only see a point of the thread at the other side (figure 4). You should complete the hem only slowly to have a better control.

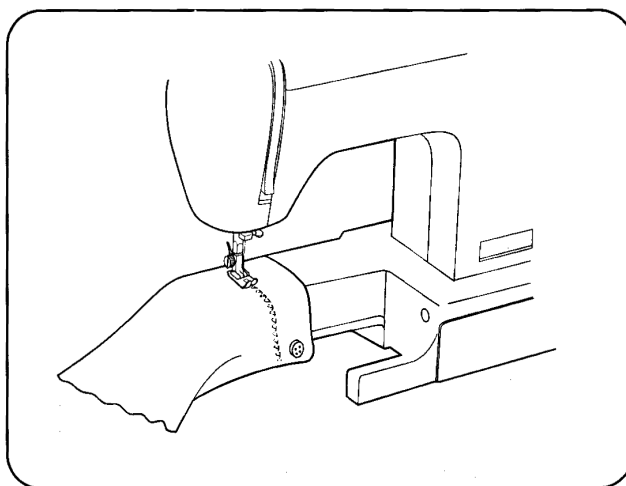


## Free arm sewing

By removing the cloth plate you get a free arm cloth plate.

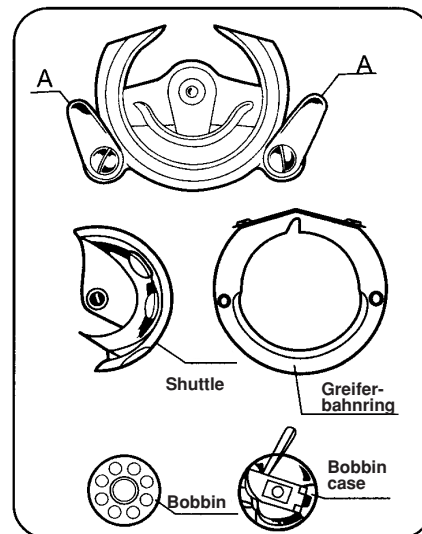
The free arm makes it possible to sew tubular components more easily.

Put the sleeves and the trouser legs onto the free arm.  
(See figure on the right)



## Clean the bobbin case

1. Put the needle in the highest position, otherwise, it is not possible to remove the shutter. Remove the bobbin case.
2. Turn the snap lever out and remove the retaining ring.
3. Remove the shuttle by holding the cone in the middle of the shuttle. Remove all the dirty parts from the retaining ring and oil all the parts using a cloth.
4. Put a few drops of oil onto the shuttle.
5. Put the parts together again in reversed order.



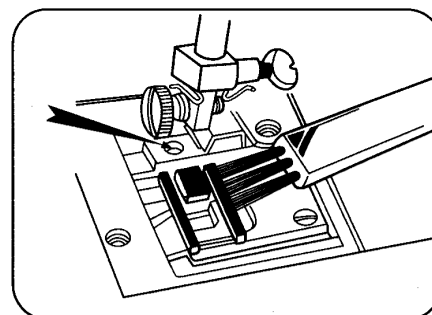
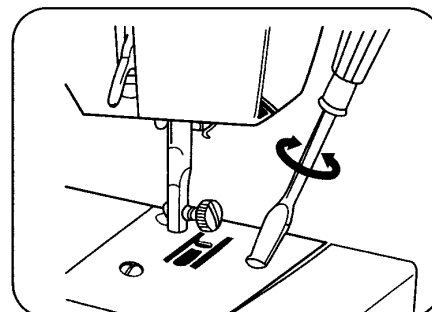
### Warning:

**Please only use special oil for sewing machines!**

## Clean feed dog

To guarantee a perfect sewing it is always necessary to keep the feed dog clean. You should clean it every 2-3 months if you use the machine very often.

1. Remove the presser foot and the needle.
2. Open the screws of the needle plate to remove them from the machine (figure 1).
3. Now, remove the dust and remnants from the feed dog by using a small brush (figure 2).
4. Put on the needle plate again.



## Oil the machine

Remove the upper arm cover and open the bulb cover.

### Warning:

Pay attention to the locked cover!

The parts that have to be oiled are marked with arrows.

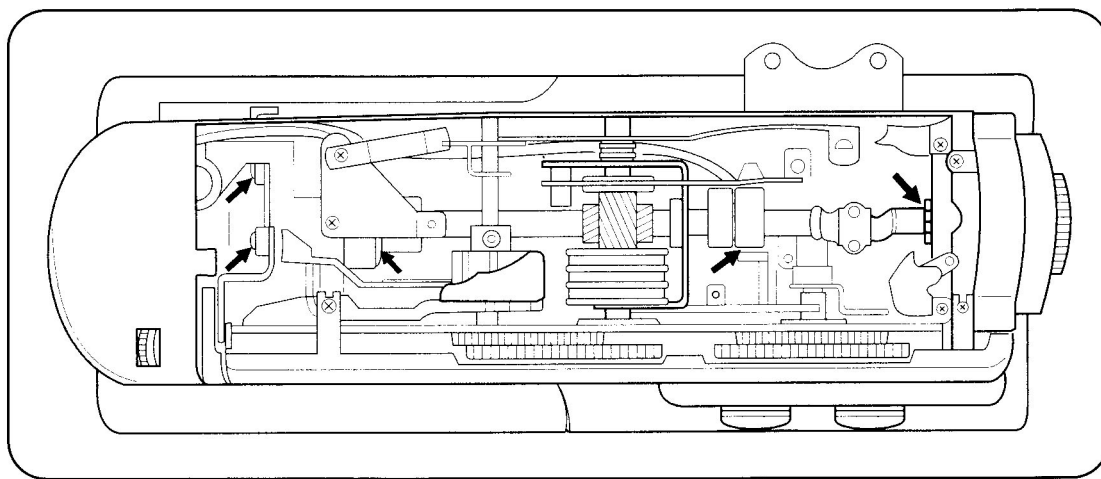
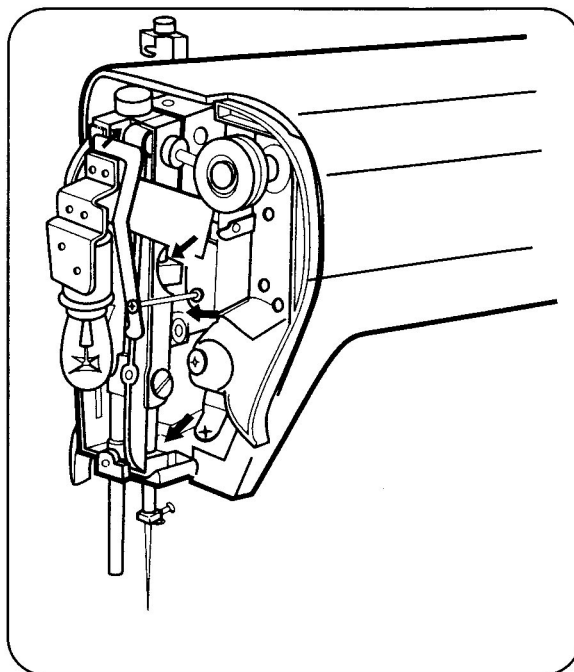
Before oiling, you should clean these parts. You can put one or two drops of good oil used for sewing machines onto these parts.

### Warning:

Only use oil for sewing machines. You should oil every second or third month.

### Warning:

After oiling, do not forget to sew a remnant first to absorb oil that came out.



# 24 months guarantee

The receipt of purchase with date of purchase is the certificate for the guarantee  
(Please always keep carefully)

If you have any questions or problems, please call our service hotline  
under phone number +49 7244 720435

Service (Repair Service)

**SDC VERTRIEBS GMBH**  
**AM HASENBIEL 6**  
**D-76297 STUTENSEE**

## **PRODUCT SPECIFICATIONS:**

|                    |                                                                        |
|--------------------|------------------------------------------------------------------------|
| POWER              | 230 VOLTS 50 HERTZ                                                     |
| POWER INPUT        | 85 WATTS                                                               |
| INCLUDING ENGINE   | 70 WATTS                                                               |
| WORKPLACE LIGHTING | 15 WATTS (LIGHT BULB SOCKET WITH THREAD E 14, MAX<br><u>15 WATTS</u> ) |
| STITCH RATE        | MAX 800 STITCHES PER MINUTE                                            |

Our devices are provided with the CE sign and are safety and GS tested.  
We are always available for further information. Please contact:  
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**P.O. Box 291347 • D- 47833 Krefeld • Germany**

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