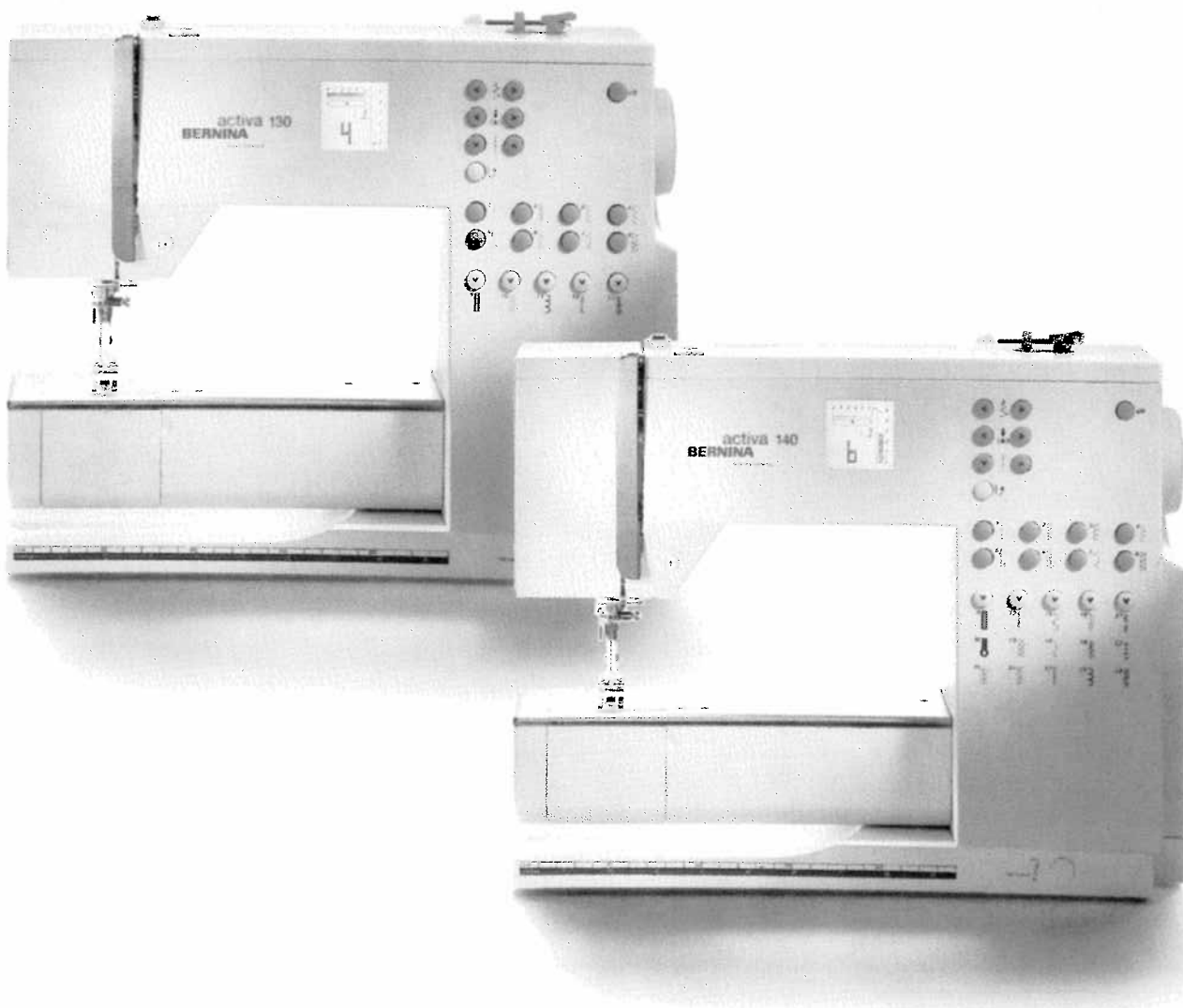


BERNINA®

Instruction Manual & Sewing Manual



activa 130
BERNINA®

Made in Switzerland

activa 140
BERNINA®

Made in Switzerland

IMPORTANT SAFETY INSTRUCTIONS

When using an electrical machine, basic safety precautions should always be followed, including the following.

Read all instructions before using this sewing machine.

When the machine is not in use, it should be disconnected from the electricity supply by removing the plug from the outlet.

DANGER

To reduce the risk of electric shock:

1. A machine should never be left unattended when plugged in.
2. Always unplug this machine from the electric outlet immediately after using and before cleaning.
3. Always unplug before replacing light bulb. Replace the bulb with the same type rated 12 volts/5 watts.

WARNING


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

1. Do not allow to be used as a toy. Close attention is necessary when this machine is used by or near children.
2. Use machine only for its intended use as described in this manual. Use only attachments recommended by the manufacturer as contained in this manual.
3. Never operate this machine if
 - it has a damaged cord or plug
 - it is not working properly
 - it has been dropped or damaged
 - it has fallen into water
 Return the machine to the nearest authorized **BERNINA** dealer or service center for examination, repair, electrical or mechanical adjustment.
4. Never operate the machine with any air openings blocked. Keep ventilation openings of the sewing machine and foot control free from accumulation of lint, dust and loose cloth.
5. Keep fingers away from all moving parts. Special care is required around the sewing needle.
6. Always use the **BERNINA** original needle plate. The wrong plate can cause the needle to break.
7. Do not use bent needles.

8. Do not pull or push fabric while stitching. It may deflect the needle causing it to break.
9. Turn power switch to «0» when making any adjustments in the needle area, such as threading or changing the needle, threading the bobbin or changing the presser foot.
10. Always unplug the sewing machine from the electrical outlet when removing covers, lubricating or when making any other user servicing adjustments mentioned in this instruction manual.
11. Never drop or insert any object into any opening.
12. Do not use outdoors.
13. Do not operate where aerosol (spray) products are being used or where oxygen is being administered.
14. Before disconnecting, turn all controls to the off («0») position then remove the plug from the outlet.
15. Do not unplug by pulling on the cord but grasp the plug.
16. No responsibility will be taken for any possible damage as the result of misuse of the machine.
17. This machine is provided with double insulation. Use only identical replacement parts. See instructions for Servicing of Double-Insulated machines.

SERVICING DOUBLE-INSULATED PRODUCTS

In a double-insulated product, two systems of insulation are provided instead of grounding. No grounding means is provided on a double-insulated product nor should a means for grounding be added to the product. Servicing a double-insulated product requires extreme care and knowledge of the system and should only be done by qualified service personnel. Replacement parts for a double-insulated product must be identical to those parts in the product. A double insulated product is marked with the words «DOUBLE INSULATION» or «DOUBLE INSULATED».

The symbol  may also be marked on the product.

SAVE THESE INSTRUCTIONS!

This sewing machine is intended for household use only.

BERNINA®



"Welcome to
the BERNINA
family"

H. P. Ueltschi
Owner BERNINA
Sewing Machine Company

Choosing **BERNINA** is a decision which will have a **positive impact** on your sewing **for years** to come. Customer satisfaction has been the driving force of our family company for over 100 years and **I intend to continue** that tradition of delivering superb Swiss quality, future-oriented sewing technology and unparalleled customer service.

The new **BERNINA family of creative sewing machines** gives you the unique opportunity to select a la carte what you need to satisfy **your sewing needs** and requirements.

In addition **a wide range of sewing accessories** together with supportive educational **publications full of practical and creative ideas** add to the joy of sewing the BERNINA WAY.

It gives me **great pleasure to welcome you** into the BERNINA family.

Setting up the machine

Operating instructions

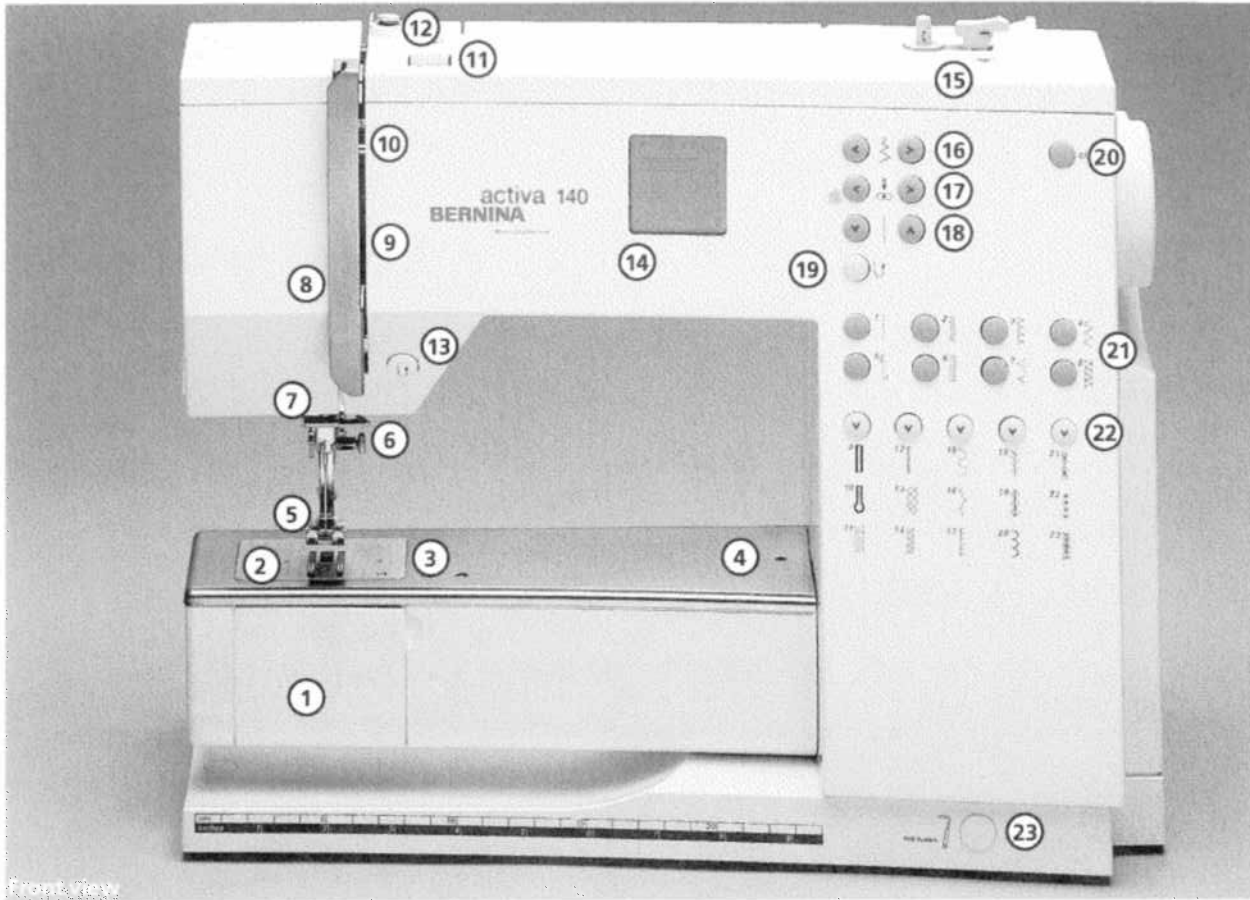
Stitches
Presser feet

Needle and thread
Fabric feed

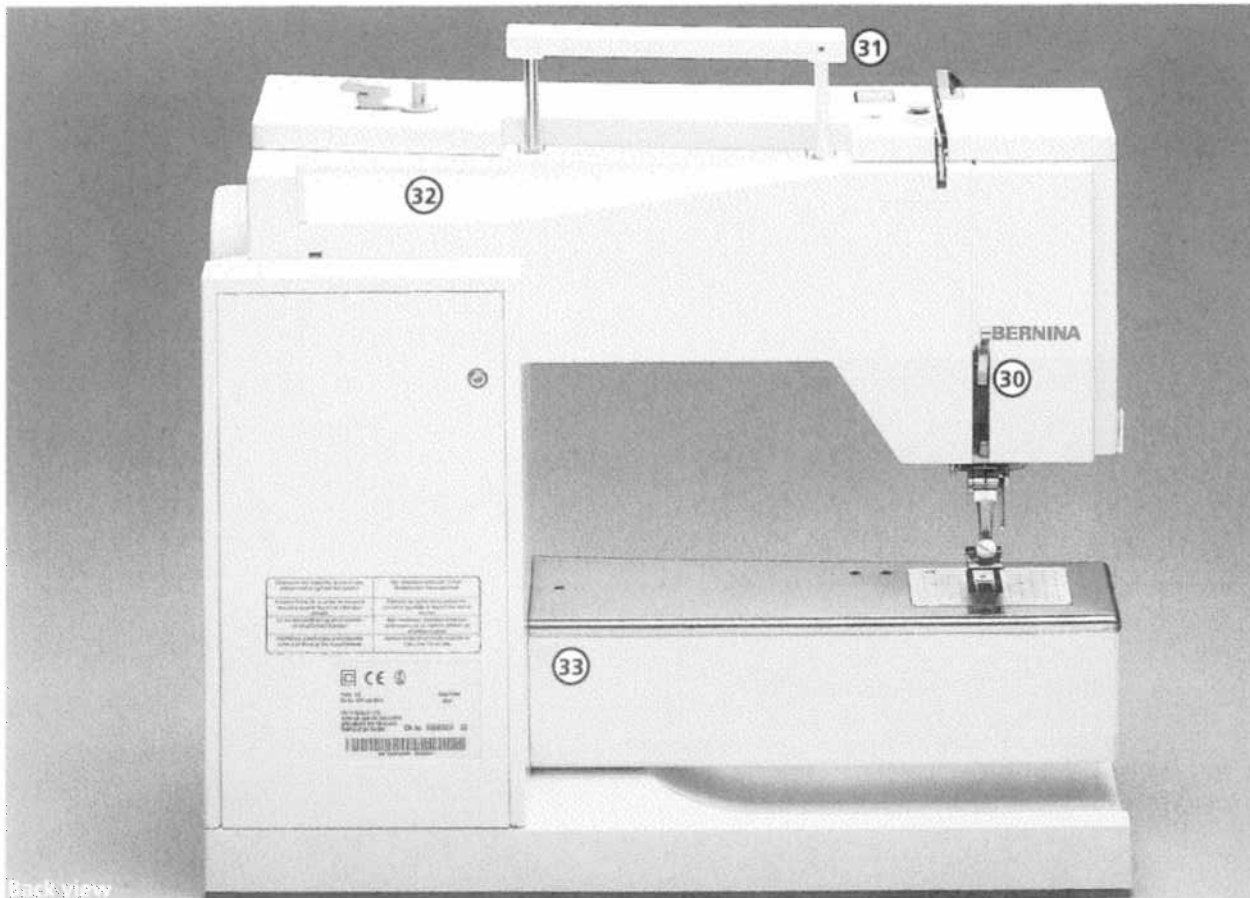
Cleaning
Maintenance
Trouble shooting

Index

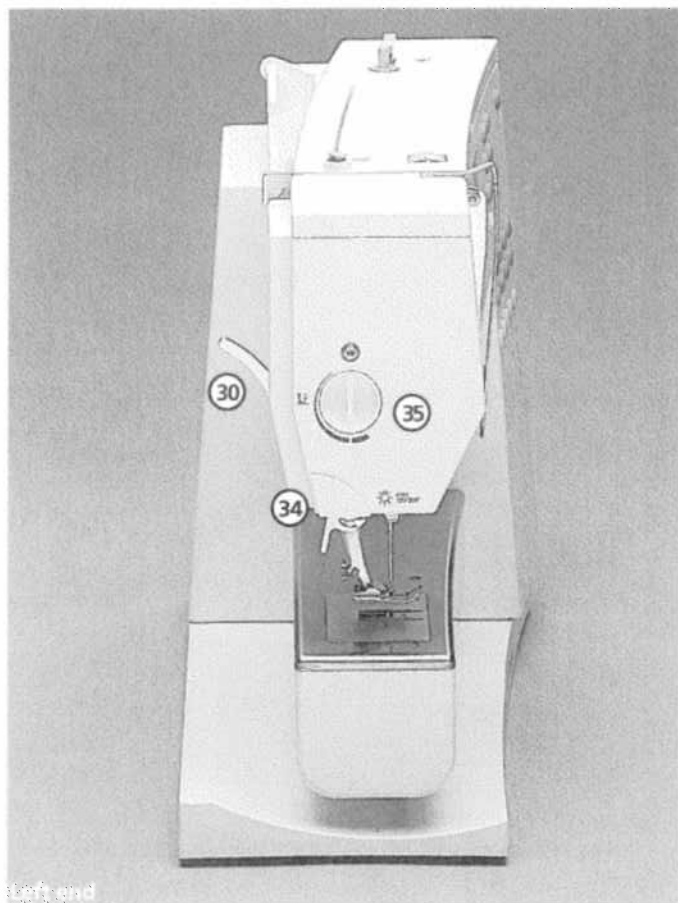
4 Details of the machine



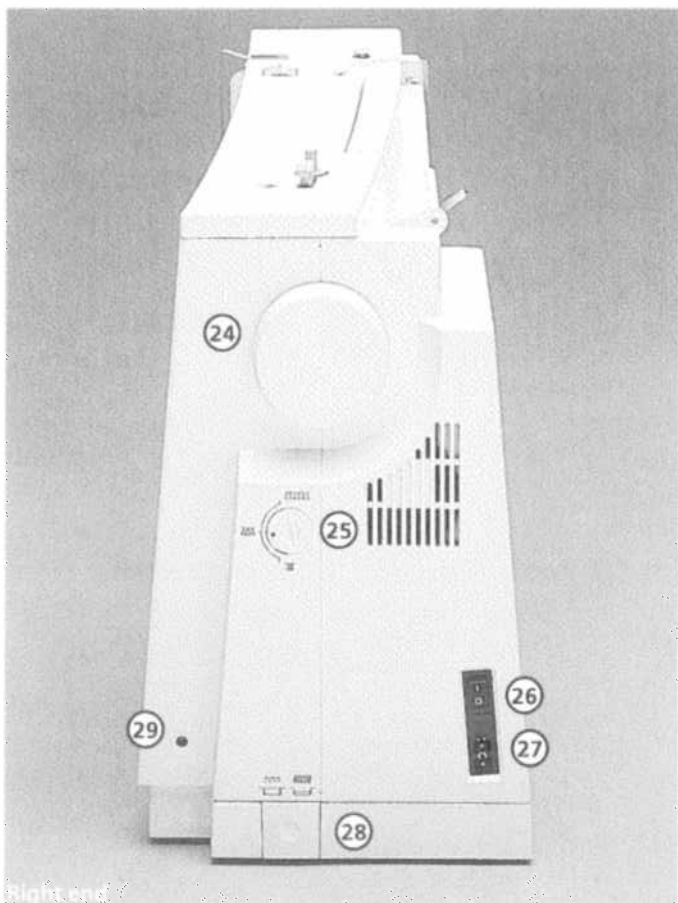
Front view



Back view



Left end

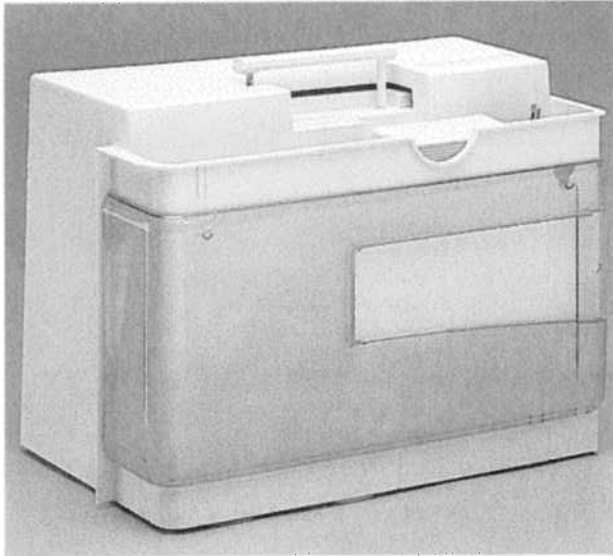


Right end

- 1 Bobbin cover
- 2 Stitch plate
- 3 Attachment base
- 4 Darning ring fixation hole
- 5 Presser foot
- 6 Needle clamp
- 7 Thread guide
- 8 Thread take-up cover
- 9 Thread slit
- 10 Thread take-up
- 11 Tension adjustment wheel
- 12 Bobbin pre-tension
- 13 Quick reverse button
- 14 Screen
- 15 Bobbin winder with on/off switch and thread cutter
- 16 Stitch width
- 17 Needle position
- 18 Stitch length
- 19 Continuous reverse button
- 20 Clear button
- 21 Stitch buttons
- 22 Stitch Row buttons
- 23 Opening for presser foot lifter (FHS) (special accessory for activa 130, 140)
- 24 Handwheel
- 25 Balance
- 26 Power switch on/off
- 27 Plug socket
- 28 Drop feed-dog
- 29 Foot control socket
- 30 Presser foot lifter
- 31 Carrying handle
- 32 Spool pins
- 33 Sewing table socket
- 34 Thread cutter
- 35 Presser foot pressure

Carrying case

6



Carrying case

- protects machine from dust and dirt
- compartment for accessories

Accessories

- foot control
 - instruction manual
 - power cable
 - warranty card
 - presser foot lifter*
 - sewing table* (attached)
- To remove the sewing table, lift slightly and remove.

* Available as special accessory for activa 130, 140



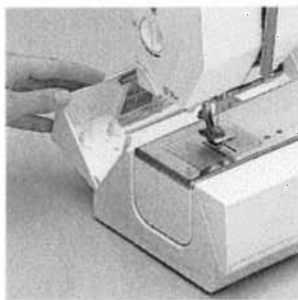
To remove the case

- grasp both sides
- pull off vertically

Note:

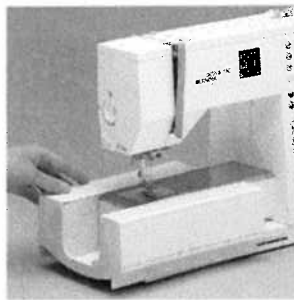
The separate spool pin must be removed to put the case on.

Accessory box



Enlarges the sewing surface

- To open, lower the cover to the back



To remove

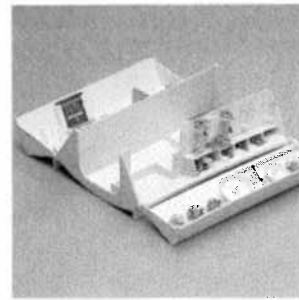
- pull the box to the left to work in free-arm mode

To attach

- push the box to the right until it engages

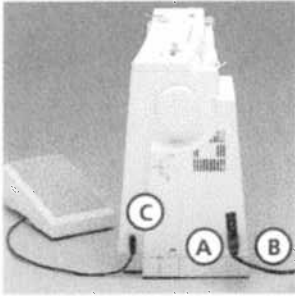
Note:

To remove the box, the hinged bobbin case cover on the free-arm must be closed.



Accessory box

Power cable



The power cable is stored in the case

- plug A into machine
- plug B into wall socket

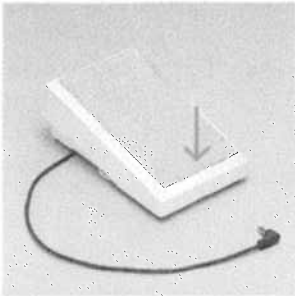
Foot control cable

- plug C into machine

Important! (USA/Canada only)

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

Foot control

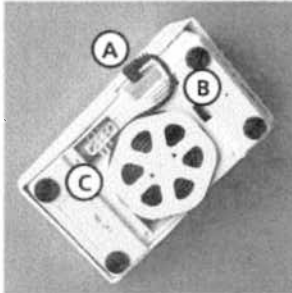


The foot control regulates the sewing speed

- raise or lower the needle by tapping on the foot control with your heel

Important!

(USA/Canada only)
Use only foot controller type LV1 or LV2 with sewing machines activa 130/140.



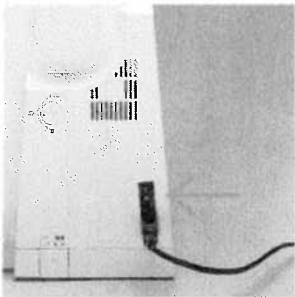
Self storing cord

- wind the cord on the reel
- insert the plug into A

When sewing

- slip the cable unwound to the desired length in B or C

Power switch



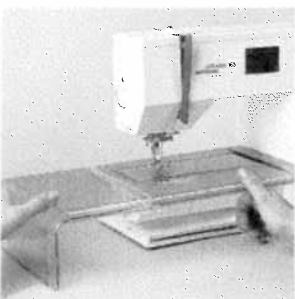
The switch is on the handwheel side of the machine

- **1** the machine is switched on
- **0** the machine is switched off

The sewing light is switched on and off with the power switch

Refer to the safety instructions!

Sewing table*



Increases the sewing surface

To attach

- place over the free arm and press firmly so that it engages on the fixing cam

To remove

- pull to the left
- remove

Seam guide

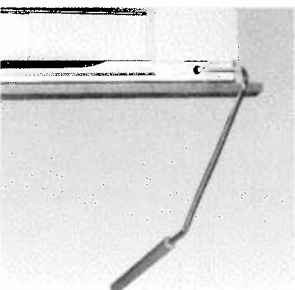
- insert into the groove (underside of table) from the right
- it can be freely adjusted over the whole width of the table

Scale

- number "0" corresponds to the centre needle position

* Available as a special accessory for activa 130, 140

FHS (Free Hand System) presser foot lifter*



The presser foot lifter raises and lowers the presser foot

- Push to the right
- the presser foot is raised
- the feed-dog is lowered simultaneously
- the feed-dog is raised as soon as the first stitch is sewn

Attaching the presser foot lifter

The presser foot lifter is stored in the case

- insert the presser foot lifter into the opening in the base plate

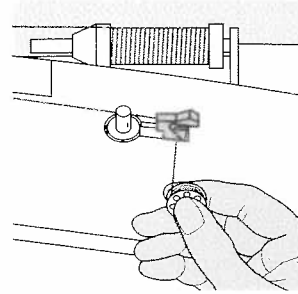
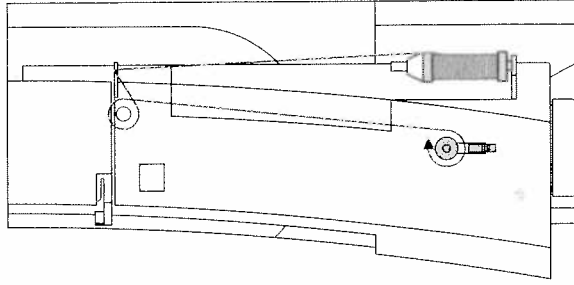
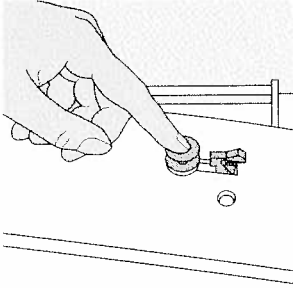
You should be able to operate the lifter with your knee in your normal sitting position

Note:

Your dealer can adjust it if necessary.

* Available as a special accessory for activa 130, 140

Winding the bobbin

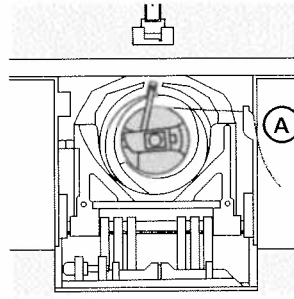
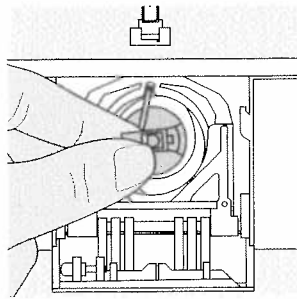
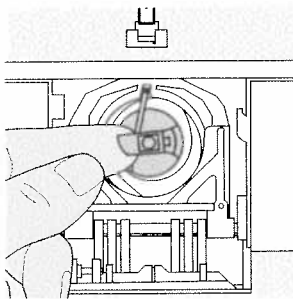


Winding the bobbin

- turn power switch on
- place empty bobbin on spindle
- following the direction of the arrow take thread through the rear guide and round the pre-tension stud
- wind it several times round the empty bobbin
- press the engaging lever against the bobbin
- press the foot control
- the motor will stop automatically when the bobbin is full
- remove the bobbin

- cut the thread on the thread cutter

Bobbin case



To remove

- raise the needle
- turn power switch to 0
- open the accessory box cover
- open the bobbin cover
- grasp the latch of the bobbin case
- remove case

To insert

- hold the bobbin case latch
- the finger on the case should point upwards
- insert so that it engages until it clicks
- close the bobbin cover
- close the accessory box cover

Bobbin thread cutter

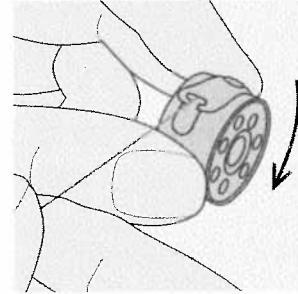
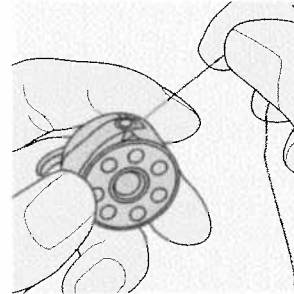
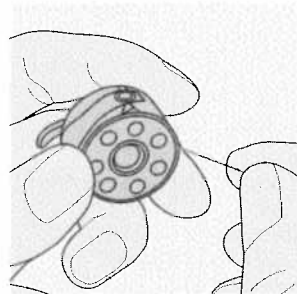
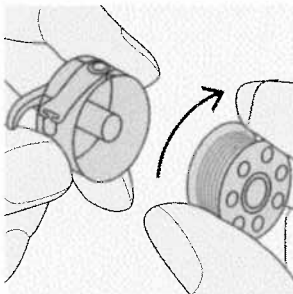
- insert the bobbin case
- take thread over cutter A
- thread is cut

Refer to the safety instructions!

Note:

The bobbin thread does not have to be brought up as the loose end is just the right length to start sewing.

Inserting the bobbin



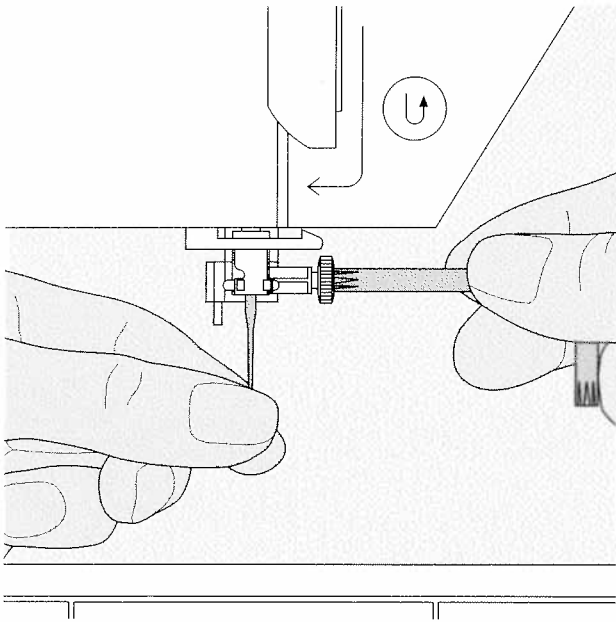
Insert the bobbin so that the thread runs clockwise.

Pull the thread counter clockwise into the slot.

Pull the thread to the left under the spring until it lies in the T-shaped slit at the end of the spring.

The bobbin must turn clockwise when thread is pulled.

Changing the needle



Removing the needle

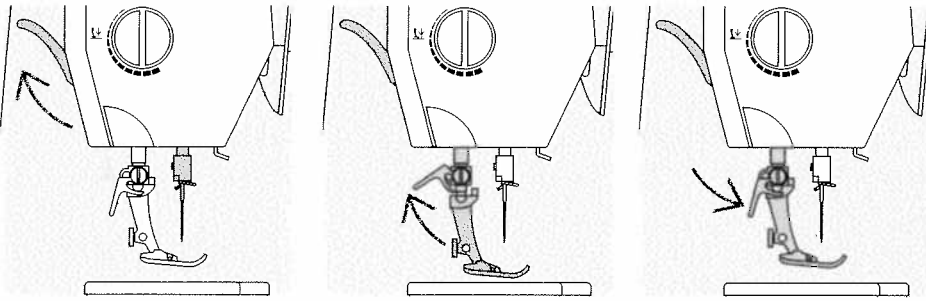
- raise the needle
- turn power switch to 0
- remove the presser foot
- loosen the needle clamp with the special screwdriver
- pull the needle down to remove

Inserting the needle

- flat side of needle to the back
- insert the needle as far as it will go
- tighten the needle clamp

Refer to the safety instructions!

Changing the presser foot



Presser foot with shank

- raise the needle and presser foot
- turn power switch to 0

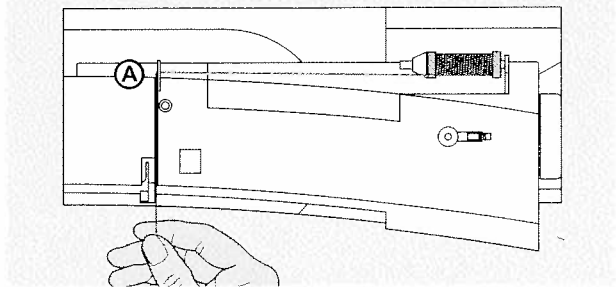
- raise the clamping lever
- remove the presser foot

Attaching the presser foot

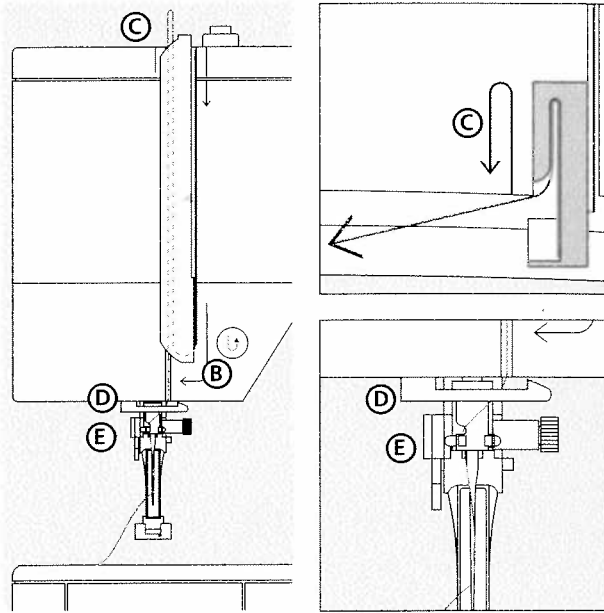
- guide the foot upwards over the cone
- press the clamping lever down

Threading the upper thread

10

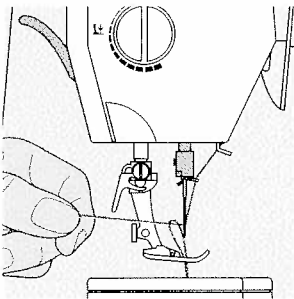


- raise the needle and presser foot
- turn the power switch to 0
- place spool on pin and attach the appropriate spool disc – diameter of spool = disc size
- take thread through rear guide A
- then into slit of upper thread tension
- pull thread down to the right of the take-up cover to B
- then up to the left of the cover to C
- and down through guides D and E



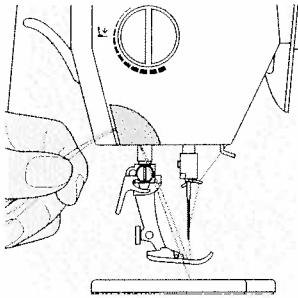
Refer to the safety instructions!

Bringing up the lower thread



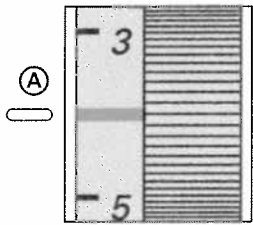
- hold the upper thread
- sew one stitch
- pull the upper thread to bring the lower thread up through the stitch plate hole
- take both threads through the slit on the presser foot to the back
- pull threads over the cutter

Thread cutter



- pull both threads from front to back over the cutter
- the threads release as soon as the first stitch is sewn

Thread tension



Basic settings

- the basic setting is indicated when the red line on the tension adjustment wheel is in line with the marking A
- the tension does not need adjusting for normal sewing work
- for special sewing work, the tension can be adjusted to suit the fabric

The tension can react differently when sewing with unusual threads and it is necessary to adjust the tension and select a needle which suits the thread.

For example:

	Tension	Needle
Metallic thread	approx. 3	90
Monofilament	approx. 2-4	80

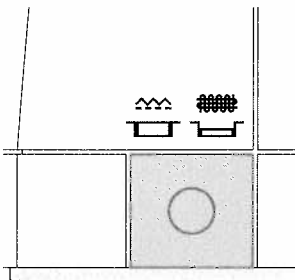
To reduce the tension

- Turn to between 3 and 1

To increase the tension

- Turn to between 5 and 10

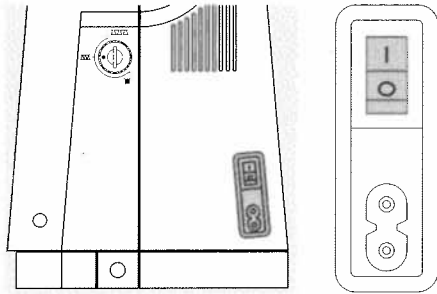
Feed-dog



Button flush with base plate = sewing position

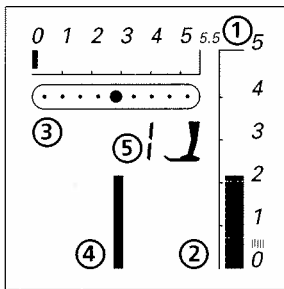
Button depressed = feed-dog is lowered
 · for free-hand sewing
 (darning, embroidery, etc.)

General Instructions



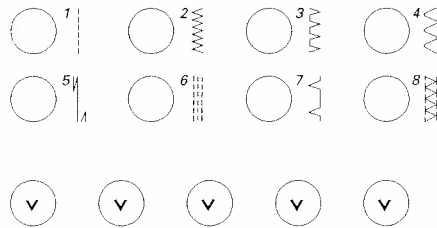
Main switch to 1

· The machine is ready to sew



The screen shows

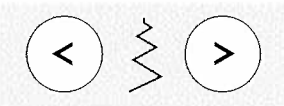
- 1 stitch width basic setting blinks constantly
- 2 stitch length basic setting blinks constantly
- 3 needle position (9 positions)
- 4 stitch number
- 5 presser foot indicator (recommended foot for selected stitch)



Stitch selection

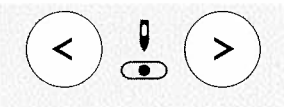
· press the appropriate button - the number and basic stitch length and width settings appear on the screen

· These buttons are to select vertically arranged stitches



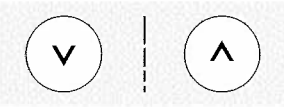
Stitch width

· left button - narrow the zig-zag
· right button - widen the zig-zag



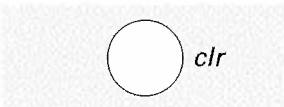
Needle position

· left button - needle to the left
· right button - needle to the right



Stitch length

· left button - shorten the length
· right button - elongate the length



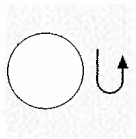
clr button

· deletes altered basic settings
· deletes selected functions
exceptions:
altered basic settings for buttonhole

Functions

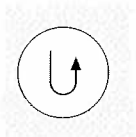
Functions are **activated** when the symbol appears on the screen.

Functions are **deactivated** when the symbols no longer appear on the screen.



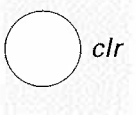
Continuous reverse

- machine sews permanently in reverse



Quick reverse

- for programming buttonholes
- for programming darning
- conversion from sewing to securing program
- manual securing for seam beginning and ending

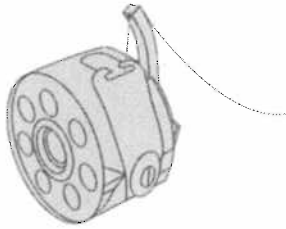


clear (clr)

- deletes functions such as altered basic settings, stitch length, stitch width, needle position, permanent reverse sewing, securing seam beginning and ending

Exceptions: needle stop down, altered basic settings for buttonholes

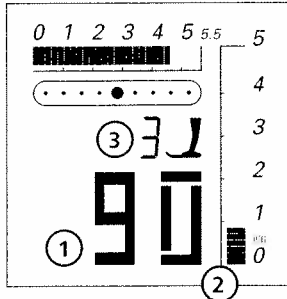
Buttonholes



The method is the same for all buttonhole types.

Preparation

- thread the bobbin thread in the bobbin case finger
- use buttonhole foot no. 3

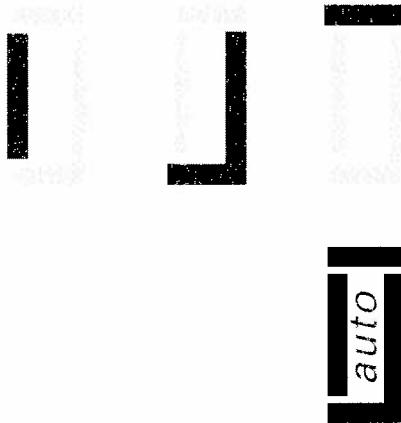


Sewing

- Select the buttonhole of your choice
- Screen shows:
 - 1 buttonhole number
 - 2 buttonhole symbol
 - 3 presser foot

Try to sew both beads with the same speed.

- sew first bead, stop machine
- press the quick reserve button (over the needle in the front head)
- sew bottom bartack and second bead, stop machine
- press the quick reserve button (over the needle in the front head)
- sew top bartack and securing stitches
- machine stops automatically



- screen shows <auto> = the buttonhole is now programmed
- sew all further buttonholes without interruption
- machine stops automatically at the end of each buttonhole
- delete programmed buttonholes with the clr button

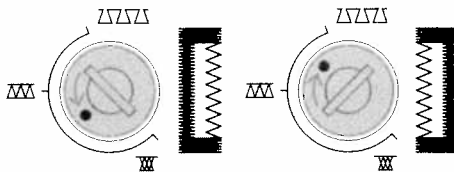
Corrections

Stitch length, stitch width

- stitch length and width alterations affect both beads (denser or spread apart)
- when the stitch length has been altered, save buttonhole again
- altered stitch lengths and widths cannot be deleted with clr

Return to basic settings

- delete altered settings manually
- press any stitch button and press buttonhole button again



1. Denser bead
2. Finer bead

1. Finer bead
2. Denser bead

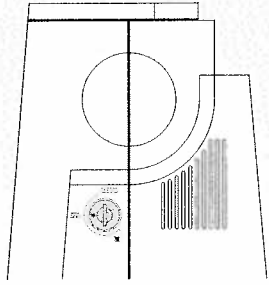
Balance

- affects both beads
- after altering the balance, delete the previously programmed buttonhole with clr
- save again with altered balance settings

Note:

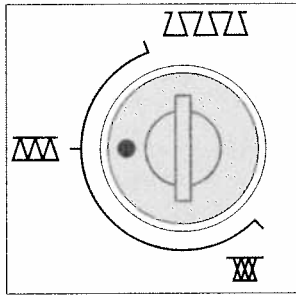
After sewing the buttonhole, return the balance to its normal setting!

Balance

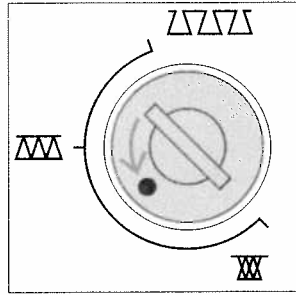


Balance

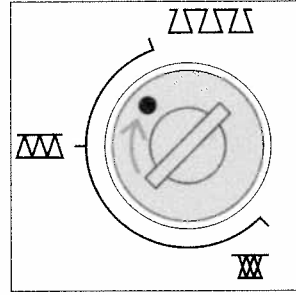
For balancing forward and reverse sewn stitches and for fine stitch length adjustments.



Normal position



Denser stitch formation
(shorter stitch length)

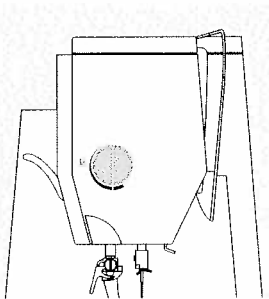


Finer stitch formation
(longer stitch length)

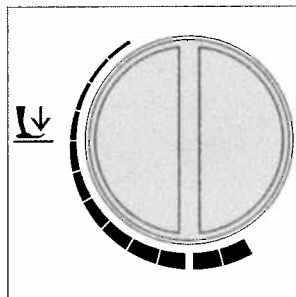
Applications:

Practical stitches, e.g. Honeycomb stitch on jersey, decorative stitches, button-holes

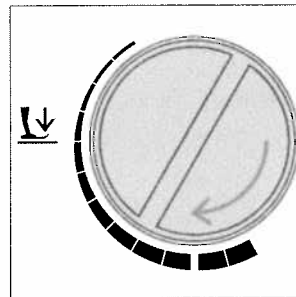
Presser foot pressure



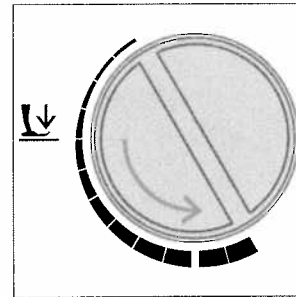
Pressure adjustment left end of machine



Standard pressure
· for normal sewing work

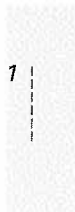


Reduced pressure
· for jerseys and loose knits
· to prevent fabric stretching
· adjust pressure so that the fabric still feeds correctly



Increased pressure
· slippery, light weight fabrics
· improves fabric feed

Stitch selection activa 130



1 **Straight stitch**

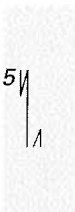
All non-stretch fabrics. All straight stitch work.

2 **Zig-zag**

Most fabric types. All simple zig-zag such as oversewing fine fabrics. Sewing on elastic and lace.

3 **Vari-overlock**

Primarily for fine jerseys, stretch overlock seams and hems.



4 **Running stitch**

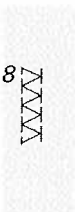
Most types of fabric. Mending, patching, reinforcing seams.

5 **Securing stitch**

All types of fabric. Secures the beginning and end of seams sewn with straight stitch

6 **Triple straight and triple zig-zag**

Reinforced seams in tough, heavy fabrics.



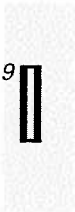
7 **Blind stitch**

Most types of fabric. Blind hems, shell edging on soft jerseys and fine fabrics, decorative seams.

8 **Double overlock**

All types of knit. Overlock = sew and neaten in one operation

Decoration stitches 11–13



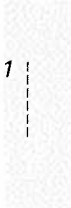


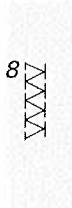
9 **Standard buttonhole**

Fine to medium weight woven fabrics. Blouses, shirts, trousers, bedlinens, etc.


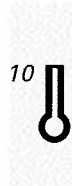

10 **Darning program**

Automatic darning for fine and medium weight fabrics.

Stitch selection activa 140

			1 Straight stitch	All non-stretch fabrics. All straight stitch work.
			2 Zig-zag	Most fabric types. All simple zig-zag such as oversewing fine fabrics. Sewing on elastic and lace.
			3 Vari-overlock	Primarily for fine jerseys, stretch overlock seams and hems.
			4 Running stitch	Most types of fabric. Mending, patching, reinforcing seams.
			5 Securing stitch	All types of fabric. Secures the beginning and end of seams sewn with straight stitch.
			6 Triple straight and triple zig-zag	Reinforced seams in tough, heavy fabrics.
			7 Blind stitch	Most types of fabric. Blind hems, shell edging on soft jerseys and fine fabrics, decorative seams.
			8 Double overlock	All types of knit. Overlock = sew and neaten in one operation
			12 Super stretch	Open seam for all super stretch fabrics.
			13 Honeycomb stitch	Most types of interlock and smooth fabrics. Visible seams and hems.
			14 Jersey stitch	Natural, blended or synthetic fabrics and delicate knits. Visible seams and hems. Mending jersey/interlock.
			15 Universal stitch	Firm fabrics such as felt and leather. Flat joining seams, visible seams, sewing on elastic, decorative seams.
			16 Gathering stitch	Most types of fabric. Gathering with shirring elastic. Butted seams = butting two pressed edges and sewing together.

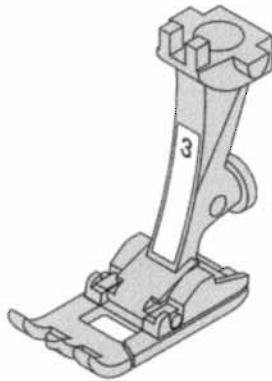
Decoration stitches 17–23

			9 Standard buttonhole	Fine to medium weight fabrics. Blouses, shirts, trousers, bedlinens, etc.
			10 Keyhole buttonhole	Heavy weight, non stretch fabrics. Jackets, coats, trousers, leisure wear, etc.
			11 Darning program	Automatic darning for fine and medium weight fabrics.

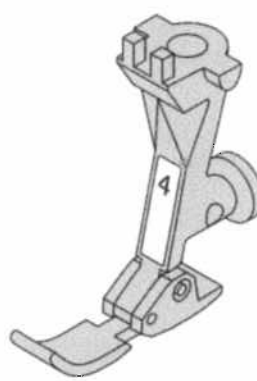
Presser foot selection



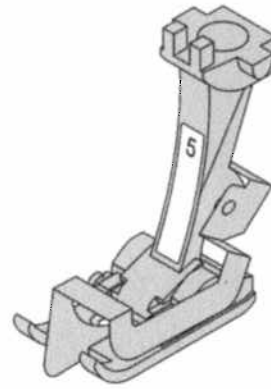
1
Reverse pattern foot
Practical and decorative stitches



3
Buttonhole foot
Buttonholes



4
Zipper foot
Sewing in zippers and top-stitching raised seams



5
Blind stitch foot
Blind hems, edge stitching

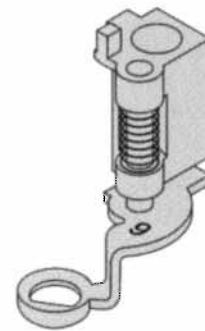
BERNINA special presser feet

The standard selection of presser feet covers most normal sewing requirements but we recommend the use of **BERNINA** purpose-designed feet for special sewing tasks such as quilting, patchwork etc.

As special requirements vary, these special feet are not included as standard but you can select 2 special feet from a wide range to suit your particular needs at **no extra** cost. They are available from your **BERNINA** dealer.



32
Pintuck foot – 7 Groove
(2 mm Double needle)
Pintucking in fine to medium-weight fabrics



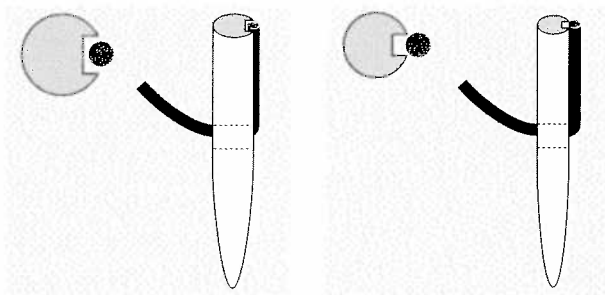
9
Darning foot
Darning
Monograms
Free-hand sewing

Important facts about sewing machine needles

Sewing machine, needle and thread
 Your **BERNINA** uses needle system 130/705H.

Needle and thread
 The most commonly sold needles are nos. 70–120. The finer the needle, the lower the number. The table shows which needle is suitable for which threads. The needle you use depends on the thread. The needle must be suitable for the thread.

Needle	70	80	90	100	110–120
Darning thread	<input type="radio"/>	<input type="radio"/>			
Embroidery thread		<input type="radio"/>			
Mercerised cotton thread		<input type="radio"/>	<input type="radio"/>		
Synthetic thread		<input type="radio"/>	<input type="radio"/>		
Thick threads, synthetic mercerised thread			<input type="radio"/>	<input type="radio"/>	
Buttonhole thread for decorative seams (cordonnet)				<input type="radio"/>	<input type="radio"/>

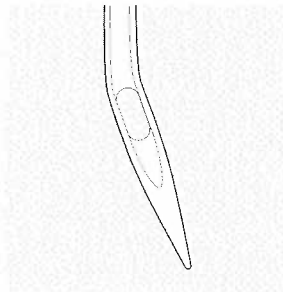


When sewing, the thread runs in the long groove on the needle.

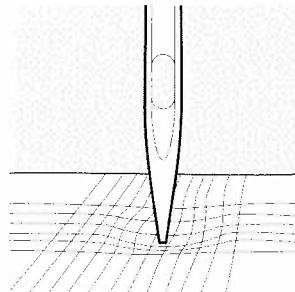
If the needle is too fine the groove cannot take the thread and faulty stitching occurs.

Needle and fabric Condition of needle

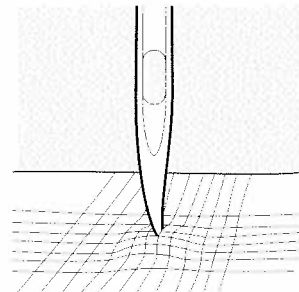
The needle must be in perfect condition. Problems can occur with damaged needles.



bent needle









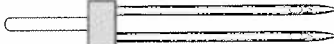
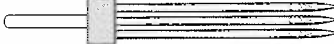

blunt needle



hooked needle

Important facts about sewing machine needles

Special materials are easier to sew if the appropriate needle is used.
Special needles are available at your **BERNINA** dealer.

Needle table	Description	Needle point	Suitable for	
Standard needle	130/705 H	Normal point, slightly rounded	Universal needle for woven, synthetic and natural fibers, e.g. linen, chiffon, batiste, organdie, wool, satin, decorative stitching, embroidery	
Special needles	130/705-SES	Fine ball point	Fine knits, especially for synthetic fibers	
	130/705 H-SUK	Medium ball point	Heavier knits in synthetic or natural fibers	
	130/705 H-S	Medium ball point	Special needle for delicate or difficult stretch fabrics	
	130/705 H-J	Extra fine point	Overalls, heavy linen, denim, canvas. Pierces dense fabrics easily	
	130/705 H-LR+H-LL	Cutting point	Natural and synthetic leather, plastic, coated and waxed fabric	
Double needle	130/705 H DO	Widths: 1,6 / 2,0 / 2,5 / 3,0 / 4,0	Visible hems in stretch fabrics, pintucks, decorative sewing	
Triple needle	130/705 H TRI	Widths: 2,5 / 3,0	Decorative sewing	
Hemstitch needle	130/705 H	Width: 2,0	Hemstitch in loose weaves	

Feed-dog and fabric feed

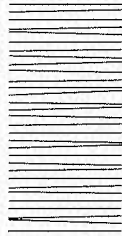
Feed-dog and stitch length

With each stitch the feed-dog moves forward by one step. The length of this step is determined by the stitch length selected. With an extremely short stitch length, the steps are also short. The fabric moves under the foot quite slowly, even at full sewing speed. Buttonholes, satin stitch and decorative stitches are all sewn with a very short stitch length.

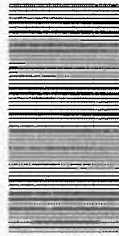
Important



Let the fabric feed evenly!

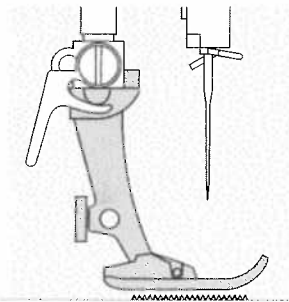


Pulling or pushing will result in gaps.

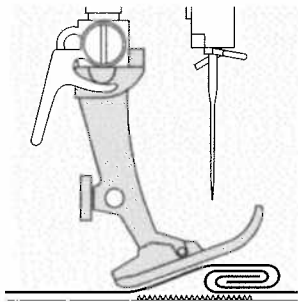


Holding back will result in knots.

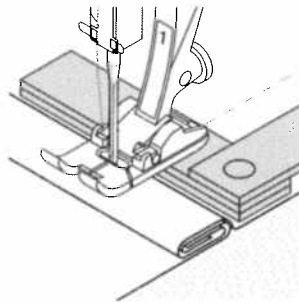
Feed-dog and fabric feed



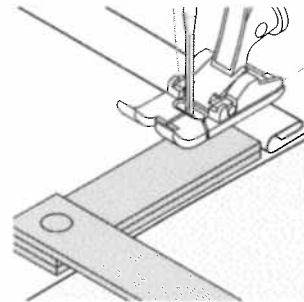
The feed-dog can work normally when the foot is level.



If the foot is at an angle, e.g. when sewing over thick to thin or vice-versa, the feed-dog can not grip and feed the fabric and the fabric hangs up.

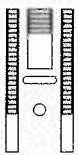


To solve this problem, place one, two or three compensating plates as required behind the needle under the presser foot.

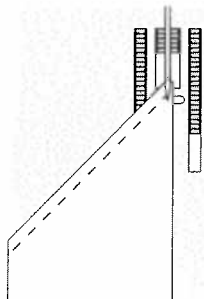


To correct the height in front of the foot, place one or more plates to the right of the foot next to the needle. Sew until the foot is level again and remove the plates.

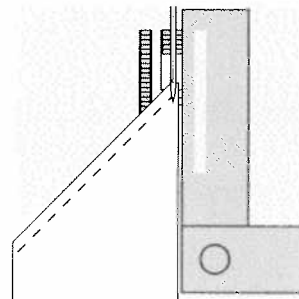
Feed-dog and sewing corners



The gap between the two rows of teeth is relatively large due to the width of the stitch plate hole.



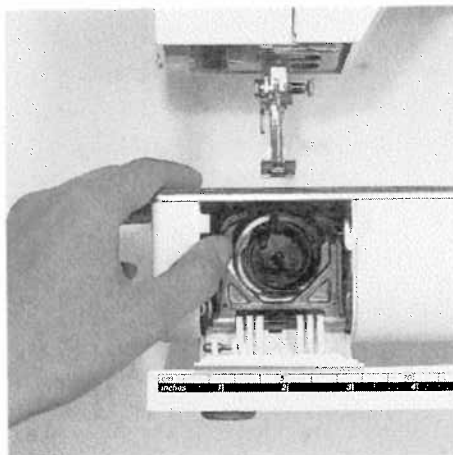
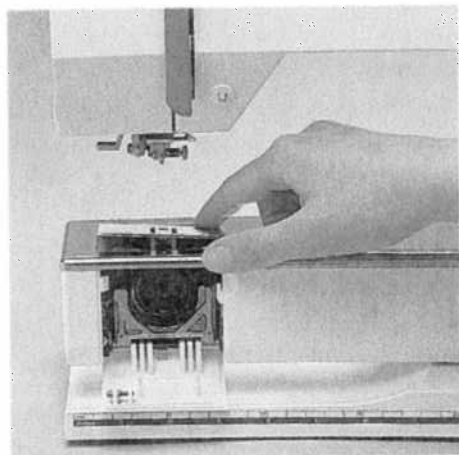
When sewing corners only a small section of the fabric is actually on the feed-dog so that it cannot grip the fabric well.



Correct this by placing one or more compensating plates as close as possible to the edge of the fabric.

Cleaning

If the machine is stored in a cold room, it should be brought to a warm room about one hour before use.



Important!
Never use solvents of any kind!

Cleaning

Clean the machine after every use

- turn power switch to 0
- remove presser foot and needle
- open the free-arm cover
- press the stitch plate down at back right corner
- lift and remove it
- clean the area with the brush
- replace the stitch plate

Cleaning the screen and the machine

- wipe with a damp cloth

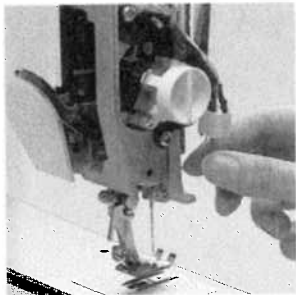
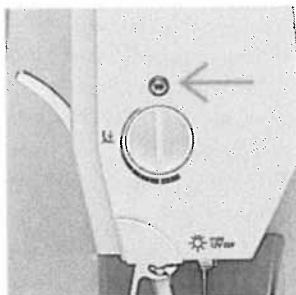
Cleaning the hook

- turn power switch to 0
- remove the bobbin case
- push the release lever to the left
- push the locking lever to the left and fold down the hook race cover
- remove the hook
- clean the hook race with a cloth or brush, never use a sharp instrument
- replace the hook, turning the handwheel if necessary so that the hook driver is on the left
- close the hook race cover and secure with the locking lever, the locking pin must engage
- check by turning the handwheel
- insert the bobbin case

Lubricating

This machine is equipped with a new developed LM (Low Mass) hook system which require no lubrication. Any lubrication will result in oiling on the fabric.

Sewing light



Note:
Use bulb type
12 V 5 W.
W 2.1 x 9.5 d.

Refer to the safety instructions!

**The light bulb creates high temperatures.
Let the light bulb cool down prior to removal.**

Replacing the bulb

- turn power switch to 0
- loosen the screw
- remove the cover
- remove the bulb
- insert the new bulb
- replace cover and tighten screw

Trouble shooting

In most cases you will be able to identify and remedy faults by checking the following.

Check whether:

- the upper and lower threads are threaded correctly
- the needle is inserted correctly with the flat side to the back
- the needle size is correct – check the needle/thread table
- the machine is clean – brush out any thread fluff
- the hook race is clean
- any threads are trapped between the tension discs or under the bobbin case spring

Upper thread breaks

- The upper thread tension is too tight
- The needles are of a poor quality. Ideally needles should be purchased from your **BERNINA** dealer.
- The needle has been inserted incorrectly. The flat side of the shank must be to the back.
- The needle is bent or blunt.
- Poor quality, knotted or dried out thread has been used.
- Use the correct spool disc.
- Stitch plate or hook tip damaged. Take your machine to your **BERNINA** dealer.

Lower thread breaks

- The lower thread tension is too tight.
- The bobbin is jamming in the bobbin case. Remove and replace the bobbin.
- The hole in the stitch plate has been damaged by the needle. This must be repolished by an expert.
- The needle is blunt or bent.

Skipped stitches

- Wrong needles used. Use only 130/705H system.
- The needle is blunt, bent or incorrectly inserted. Push right to the top when inserting.
- Needle inserted all the way to the top.
- The needle point does not suit the fabric being sewn. If necessary use a ball point for knitted fabrics and cutting point for hard leather.

Needle breaks

- Needle clamp screw loose.
- Fabric taken out in front of instead of behind the presser foot.
- When sewing over thick area, the fabric was pushed with the needle still in the fabric.
- Poor quality thread, unevenly wound or knotted.

Faulty stitching

- Remnants of thread between the tension discs.
- Remnants of thread under the bobbin case spring.
- Lower thread still threaded in the bobbin case finger.
- Incorrect threading. Check upper and lower threads.
- Use the correct spool disc.

Machine fails to run or runs slowly

- Plug not fully inserted.
- Power switch in off position.
- Machine has been standing in a cold room.
- Bobbin winder still switched on.

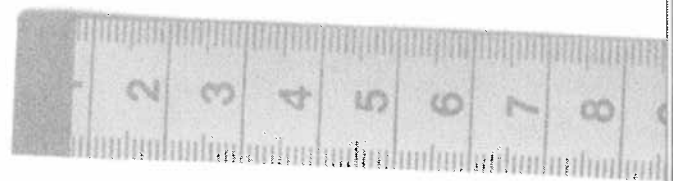
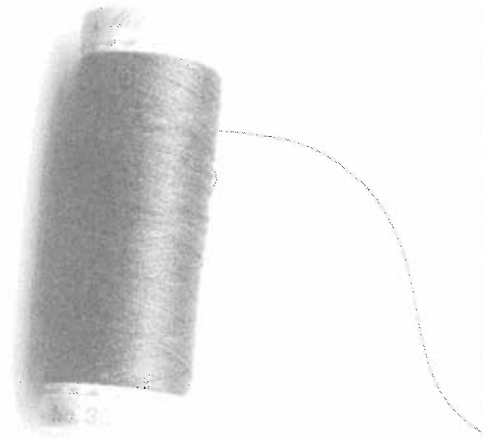
Machine sews in reverse

- Reverse sewing function is still activated.

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Sewing Manual



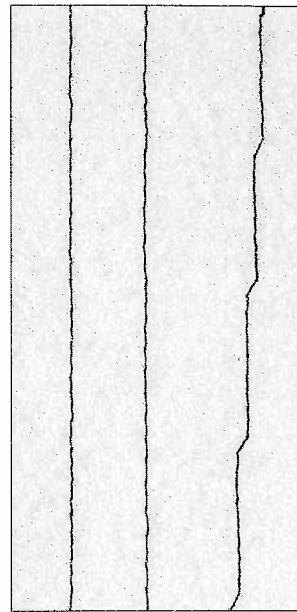
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Straight stitch

Stitch: **Straight stitch**
 Needle: **80/70**
 Thread: **machine/darning thread**
 Feed-dog: **sewing**
 Presser foot: **Reverse pattern foot no. 1**

Straight stitch (A)

- The machine is ready to sew as soon as you switch on
- select straight stitch
 - presser foot display
 - basic settings (length and width) for straight stitch
 - basic settings blink constantly

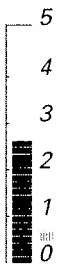


A B C

Altering the stitch length (B)

You can alter the length while you sew:

- ⏪ shorten
- ⏩ lengthen



Change the needle position (C)

Only change the needle position if the needle does not go into the fabric:

- ⏪ to the left
- ⏩ to the right



Securing with continuous reverse button (frame)

- press the button and the machine sews in reverse
- release the button and the machine sews forwards



TIP

Adjust the stitch length to suit the fabric:

- e.g. denim = longer stitch length (approx. 3–4)

Adjust the stitch length to suit the thread:

- e.g. cordonnnet for top stitching = longer stitch length (approx. 3–5)

Securing stitch (straight stitch)



Stitch: **Securing stitch**
 Needle: **80/70**
 Thread: **machine/darning thread**
 Feed-dog: **sewing**
 Presser foot: **Reverse pattern foot no. 1**

Securing stitch
 for all fabrics
 secures beginning and end of seam

Stitch selection

- press the appropriate button

On-screen

- presser foot
- basic settings (width and length)

Sewing

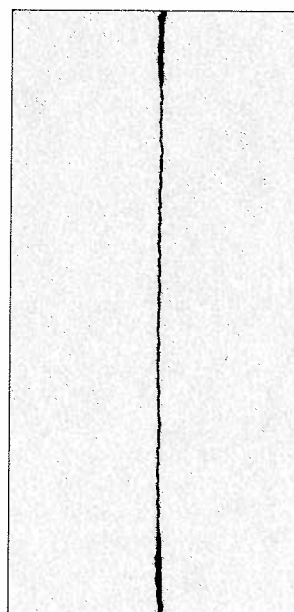
Seam begin

- machine secures seam automatically (4 stitches forward, 4 stitches reverse)
- continue with straight stitch



Seam end

- press the quick reverse button
 machine secures automatically (4 stitches forward, 4 stitches reverse)
- machine stops automatically when securing is complete



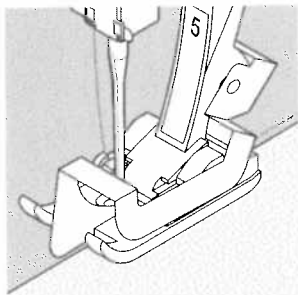
TIP

Sewing long seams

- quick and easy securing at beginning and end of seam

Edge stitching

Stitch: **Straight stitch**
 Needle: **80/90–110**
 Thread: **machine/cordonnet**
 Feed-dog: **sewing**
 Presser foot: **Reverse pattern foot no. 1**



Narrow edge stitching

Needle position

- left for outer edge
- right for inner edge

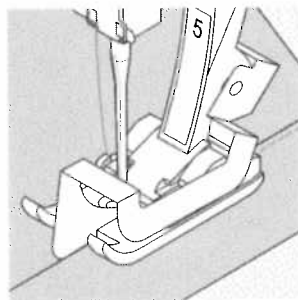
Presser foot

- Blind stitch foot no. 5

Example

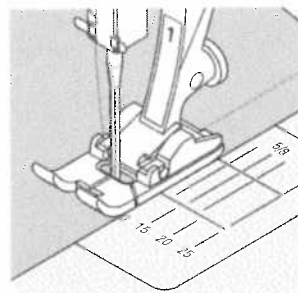
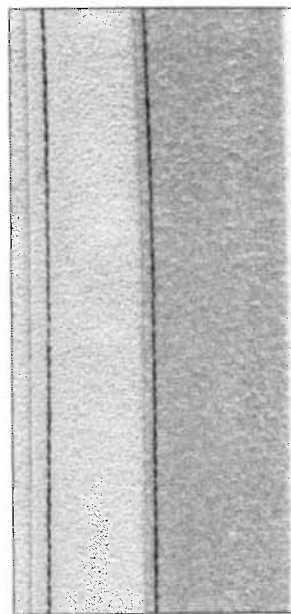
Outer edge

- place edge of fold against the guide on the foot
- select needle position at desired distance from the edge



Hem edges

- place edge of fold against the guide on the foot
- select needle position right



Wide edge stitching

Needle position

- all

Presser foot

- Reverse pattern foot no. 1

At a foot's width (A)

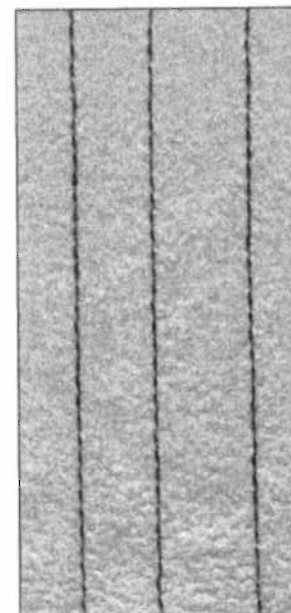
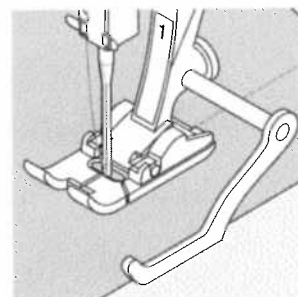
- guide the fold along the edge of the presser foot sole

At 1–3 cm (B)

- guide the folded edge along the markings on the stitch plate

Seam guide (C)

- insert the seam guide into the hole on the presser foot shaft
- adjust as desired
- guide the folded edge along the seam guide
- to sew parallel lines, guide the fabric along a previously sewn line of stitches



A B C



TIP

Edge stitching with seam guide

- a big help when sewing parallel lines and criss-cross

Zig-zag stitch



Stitch: **Zig-zag**
 Needle: **80/70**
 Thread: **machine/darning thread**
 Feed-dog: **sewing**
 Presser foot: **Reverse pattern foot no. 1**

Zig-zag stitch

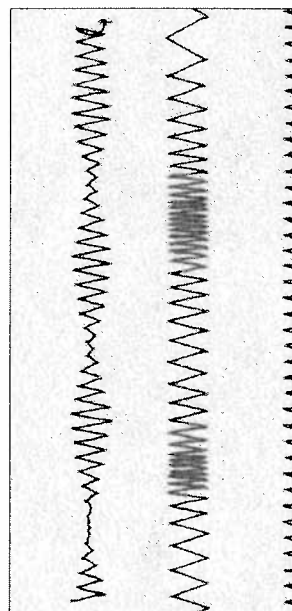
for all fabrics
 for neatening edges
 for decorative work

Stitch selection

· press the appropriate button (zig-zag)

On-screen

· presser foot
 · basic settings (length and width)



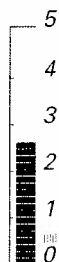
A B C



Altering the stitch width (A)

· the width can be altered while you sew

- ⊕ wider
- ⊖ narrower



Altering the stitch length (B)

· the length can be altered while you sew

- ⏪ shorter
- ⏩ longer



Satin stitch

dense (shorter) zig-zag stitch = filled in zig-zag

Oversewing edges (C)

- guide edge of fabric under the center of the presser foot
- needle goes into fabric on one stroke and over the edge of the fabric on the next stroke
- do not select too wide a width or too long a stitch – the edge should lie flat and not roll
- use darning thread for fine fabrics



TIP

Oversewing edges with zig-zag

- if edges roll, use Vari-overlock stitch and foot no. 2 (optional foot)

Embroidery with satin stitch

- adjust the stitch width as you sew for new effects

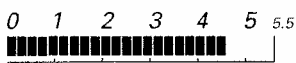
Decorative stitches

Stitch: **Decorative stitch**
 Needle: **80/90**
 Thread: **machine/embroidery**
 Feed-dog: **sewing**
 Presser foot: **Reverse pattern foot no. 1 or no. 6 (depending on stitch)**

Decorative stitches
 for all fabrics, for embellishing

Stitch selection (A)
 · press appropriate button

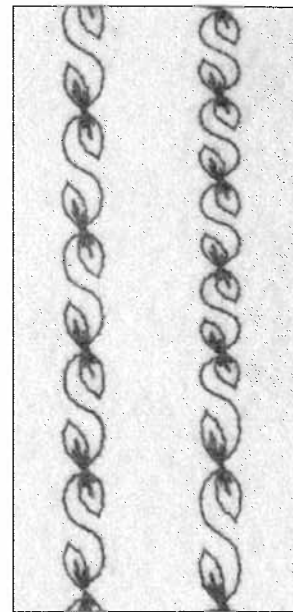
Altering the basic settings



Stitch width
 ⊕ wider
 ⊖ narrower



Stitch length (B)
 ∨ shorter
 ∕ longer



A B



TIP

Altering the basic settings

- stitches can be adjusted to suit your own tastes, e.g. for dolls clothes, reduce the width
- the size of motifs can be adjusted to suit small items

Decorative stitches on single layer of fabric:

- always use stabilizer underneath
- remove after sewing is complete

Practical stitch seams

Open seams

- Seams which are pressed open
 - seam allowance width as wide as wanted
 - seam lies flat
 - seam does not stretch open
- Application: primarily for woven fabrics

Closed seam (overlock seams)

- Seams which cannot be pressed open
 - sewn and neatened in one operation
 - narrow seam allowances
- Application: primarily for knits and jerseys

Flat joining seams

- Seams where the edges are overlapped and then over-sewn
 - sewing is on the seam allowances
- Application: particularly good for towelling and lycra

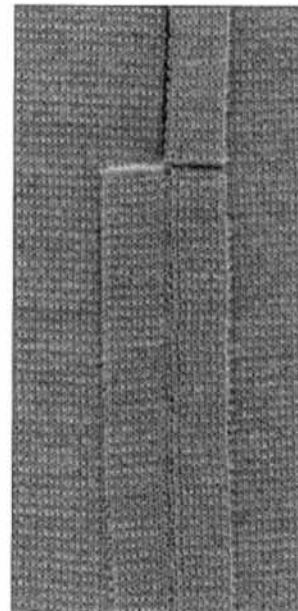


Zig-zag seam



- Stitch: **Zig-zag**
- Stitch width: **approx. 1**
- Stitch length: **approx. 1/2**
- Needle: **80**
- Thread: **machine thread**
- Feed-dog: **sewing**
- Presser foot: **Reverse pattern foot no. 1**

- Open seam**
- in knits and jerseys



TIP

Seam in jersey or knits waves

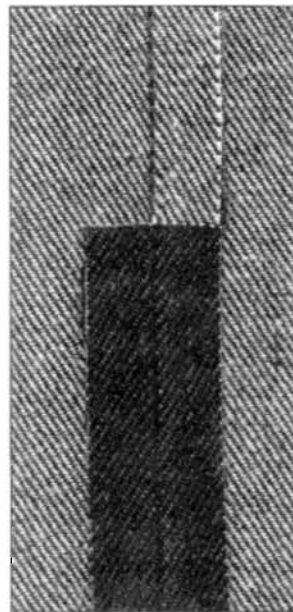
- reduce presser foot pressure to suit the fabric

8 Triple straight stitch seam



Stitch: **Triple straight stitch**
Needle: **80/90**
Thread: **machine thread**
Feed-dog: **sewing**
Presser foot: **Reverse pattern foot no. 1**

Open seam
strong seam for firm and densely woven fabric such as denim and corduroy



TIP

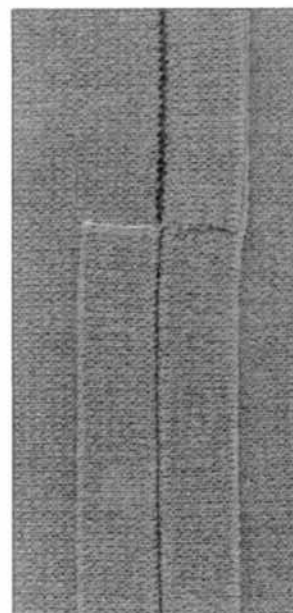
Use a Jeans needle
for densely woven fabrics

Super stretch seam



Stitch: **Super stretch** (only activa 140)
Needle: **80**
Thread: **machine thread**
Feed-dog: **sewing**
Presser foot: **Reverse pattern foot no. 1**

Open seam
flexible seam for very stretchy fabrics, particularly for sports and leisure wear



TIP

Knits and jersey

· use a new ball point needle to prevent damaging the loops

Sewing stretch fabrics

· if necessary use a stretch needle (130/705H-S) = needle point slides between the fibers

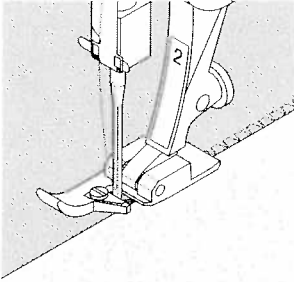
Seam in knits or jersey waves

· reduce presser foot pressure to suit the fabric

Vari-overlock seam

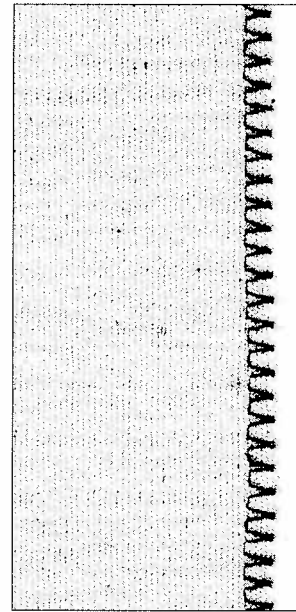


Stitch: **Vari-overlock**
 Needle: **80/70**
 Thread: **machine/darning thread**
 Feed-dog: **sewing**
 Presser foot: **Overlock foot no. 2 (optional)**



Closed seam
 stretchy seam in fine, soft knits such as silk jersey and interlock

Sewing
 · guide the raw edge along the pin on the overlock foot



TIP

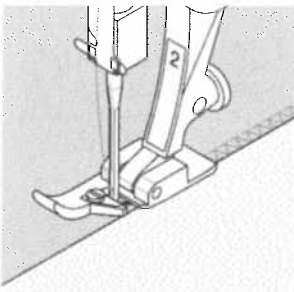
Knits and jersey
 · use a new needle to prevent damaging the loops

Sewing stretch fabrics
 · if necessary use a stretch needle (130/705H-S) =
 needle point slides between the fibers

Double overlock seam

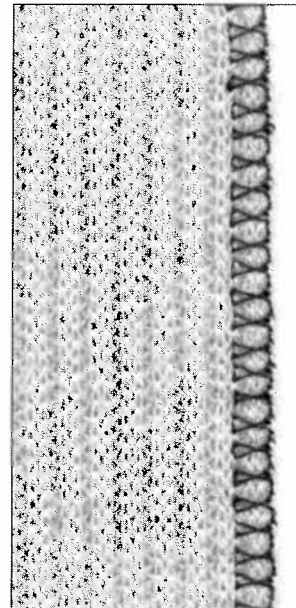


Stitch: **Double overlock**
 Needle: **80**
 Thread: **machine thread**
 Feed-dog: **sewing**
 Presser foot: **Overlock foot no. 2 (optional)**



Closed seam
 overlock seam in loose knits and cross seams in knits and jerseys

Sewing
 · guide the raw edge along the pin on the overlock foot



TIP

Knits and jersey
 · use a new needle to prevent damaging the loops

Sewing stretch fabrics
 · if necessary use a stretch needle (130/705H-S) =
 needle point slides between the fibers

Hems with practical stitches

Preparation

- press hem and baste if desired

Sewing

- sew hem at desired depth (right side)
- trim surplus fabric (wrong side)

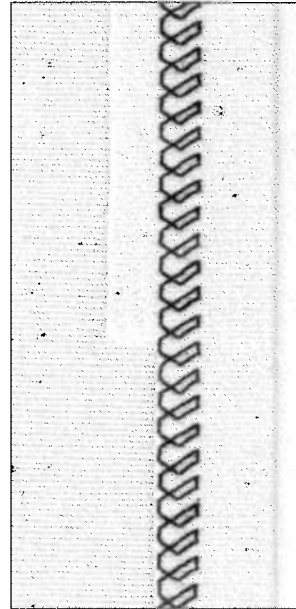
Visible hem with Jersey stitch



Stitch: **Jersey stitch** (only activa 140)
 Needle: **80**
 Thread: **machine thread**
 Feed-dog: **sewing**
 Presser foot: **Reverse pattern foot no. 1**

Visible stretch hem

for all types of cotton, wool, synthetic and mixed fiber jersey



TIP

Knits and jersey

- use a new ball point needle to prevent damaging the loops

Sewing stretch fabrics

- if necessary use a stretch needle (130/705H-S) = needle point slides between the fibers

Machines without Jersey stitch

- use Vari-overlock stitch, guide straight stitches along raw edge of hem

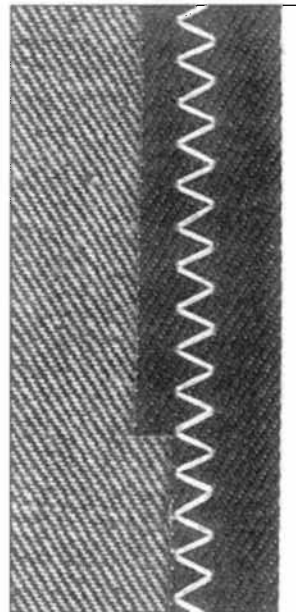
Visible hem with Triple zig-zag stitch



Stitch: **Triple zig-zag**
 Stitch width: **2.5–5 depending on fabric**
 Stitch length: **basic setting**
 Needle: **80**
 Thread: **machine thread**
 Feed-dog: **sewing**
 Presser foot: **Reverse pattern foot no. 1**

Strong visible seam

for firm, densely woven fabrics, particularly good for denim and canvas



TIP

Hems on items which are to be washed frequently

- first neaten raw edges and do not trim after sewing

Sewing firm, hard fabrics

- use a Jeans needle

Sewing knits

Important information

Perfect needle

- blunt needles can damage knits

Use a stretch needle (130/705 H-S) if necessary

- the needle point slides between the fibers

Fine sewing thread

- coarse threads can damage knits and cause holes when the garment is washed

Darning thread for basting

- it's easier to remove when oversewn

Sewing test, when necessary

- the elasticity of modern fabrics varies greatly
- adjust basic settings to suit the fabric; the seam should be as stretchy as the fabric
- for greater elasticity:
 - use a shorter stitch length and a wider stitch width
 - (only one of these adjustments may be necessary)

Presser foot pressure

- soft, loose knits can wave when sewn:
 - reduce the pressure until the seam lies flat;
 - the machine must still feed the fabric properly

Ribbing with Honeycomb stitch



Stitch: **Honeycomb** (only activa 140)
 Needle: **80**
 Thread: **machine thread**
 Feed-dog: **sewing**
 Presser foot: **Reverse pattern foot no. 1**

Ribbing with visible seam

for all cotton, wool, synthetic and mixed fiber jersey

Preparation

- press 1 cm (3/8") to wrong side

Sewing

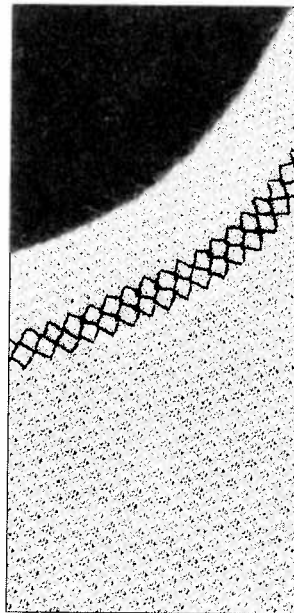
- sew from the right at a foot's width from the edge
- trim surplus fabric (wrong side)

Balance/corrections

- Honeycomb stitch is not closed
 - bring stitch together
 - = **adjust balance - (subtract space between stitches)**



- open out stitch
- = **adjust balance + (add space to stitches)**



TIP

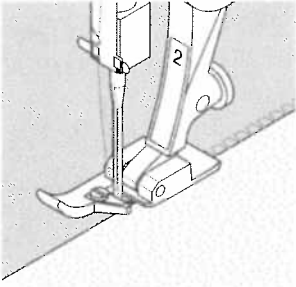
Needle stop down

- needle stays in fabric when you stop to adjust the ribbing

12 Ribbing with overlock seam



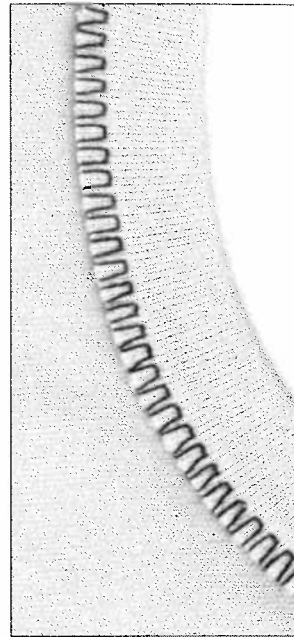
Stitch: **Vari-overlock**
Needle: **80**
Thread: **machine thread**
Feed-dog: **sewing**
Presser foot: **Overlock foot no. 2 (optional)**



Ribbing with overlock seam
for all fine cotton, synthetic and mixed fiber jersey

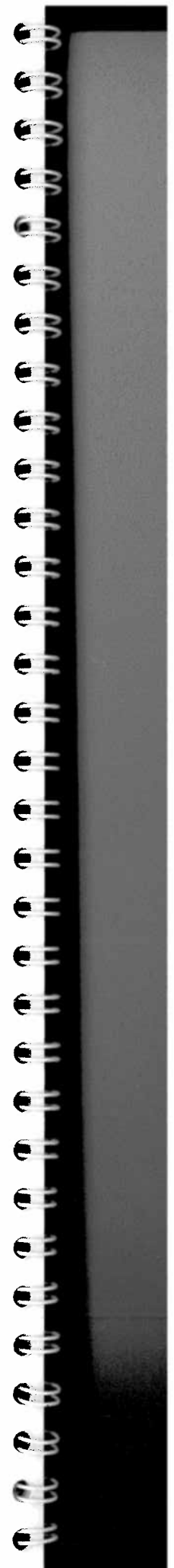
Preparation
· fold ribbing in half
· pin and baste to opening, right side outside

Sewing
· sew Vari-overlock over the raw edge
· guide the edge along the pin on the foot



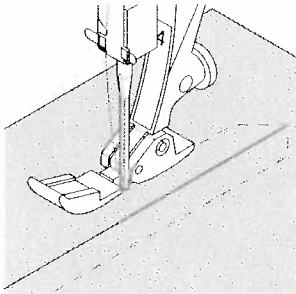
TIP

Needle stop down
· needle stays in fabric when you stop to adjust the ribbing



Zippers

Stitch: **Straight stitch**
 Needle: **80–100**
 Thread: **machine thread**
 Feed-dog: **sewing**
 Presser foot: **Zipper foot no. 4**
 Needle position: **change needle position to right or left**

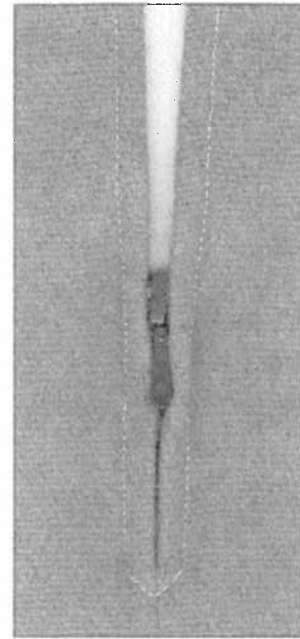


Preparation:

- baste in zipper
- fabric edges should meet over the center of the zipper

Sewing

- sew in the zipper, each side from bottom to top
- once with needle position right and once with needle position left



TIP

To sew round zipper pull

- close zipper and sew up to about 5 cm (2") away from the pull
- insert needle, raise the presser foot, open the zipper, lower the foot and continue to sew

Seam begin

- hold thread firmly when starting to sew = pull fabric slightly to the back (fewer stitches)

Zipper or fabric is thick or densely

- use a 90–100 needle for even stitch formation

Blind hem



- Stitch: **Blind hem**
- Needle: **80**
- Thread: **machine/fine thread or lightweight thread sewing**
- Feed-dog: **Blind stitch foot no. 5**
- Presser foot: **Blind stitch foot no. 5**

Blind hem

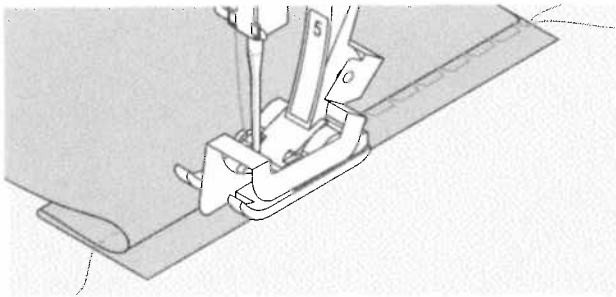
for invisible hems in medium to heavy cotton, wool and blended fabrics

Preparation

- neaten raw edges
- prepare seam as for sewing by hand
- place work under the presser foot (see drawing)

Sewing

- the needle should just pierce the edge of the fold (same as hand sewing)
- adjust the stitch width to suit the fabric
- after sewing about 10 cm (4"), check both sides of fabric and adjust width again if necessary



TIP

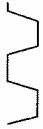
Even stitching

- hold fabric back lightly while sewing

Fine stitch width adjustment

- guide the folded edge evenly along the metal guide on the foot = even depth

Sewing on elastic/cord



Stitch: **Universal stitch** (only activa 140)
 Stitch width: **depending on width of elastic**
 Needle: **80**
 Thread: **machine thread**
 Feed-dog: **sewing**
 Presser foot: **Reverse pattern foot no. 1 or Embroidery foot no. 6 (optional)**

Sewing on elastic

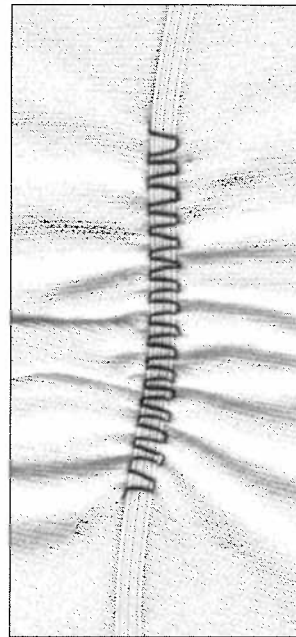
for gathering long lengths of fabric, frills and flounces in fine fabrics

Preparation

- cut elastic to length required

Sewing

- sew over elastic
- needle must not pierce elastic
- after sewing even out the gathers



TIP

Secure the beginning and end of elastic

- sew a few straight stitches backward and forward to secure the elastic

Quick hem finish

- for children's or doll's clothing
- sew hem with elastic before sewing side seams

Sewing on shirring elastic/cord with Gathering stitch



Stitch: **Gathering stitch** (only activa 140)
 Needle: **80**
 Thread: **machine thread**
 Feed-dog: **sewing**
 Presser foot: **Buttonhole foot no. 3**

Shirring elastic/cord

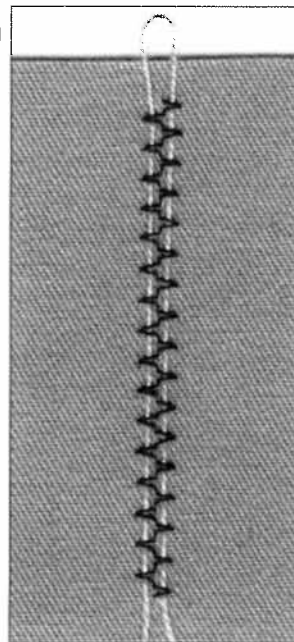
for gathering long lengths of fabric

Preparation

- cut elastic/cord double the length of the fabric
- fold in half
- hook over the center prong on the buttonhole foot
- take both ends under the foot to the back

Sewing

- sew a few stitches
- lift elastic/cord at the front and pull towards you
- leave ends behind the presser foot
- oversew cord
- after sewing pull the cord to gather the fabric
- stretch elastic while sewing
- the tighter it is stretched, the tighter the gathers



TIP

Securing beginning and end

- sew a few stitches with the feed-dog lowered

Sewing on wide elastic with Running stitch



Stitch: **Running stitch**
 Stitch length: **adjust to suit elastic**
 Needle: **80**
 Thread: **machine thread**
 Feed-dog: **sewing**
 Presser foot: **Reverse pattern foot no. 1**

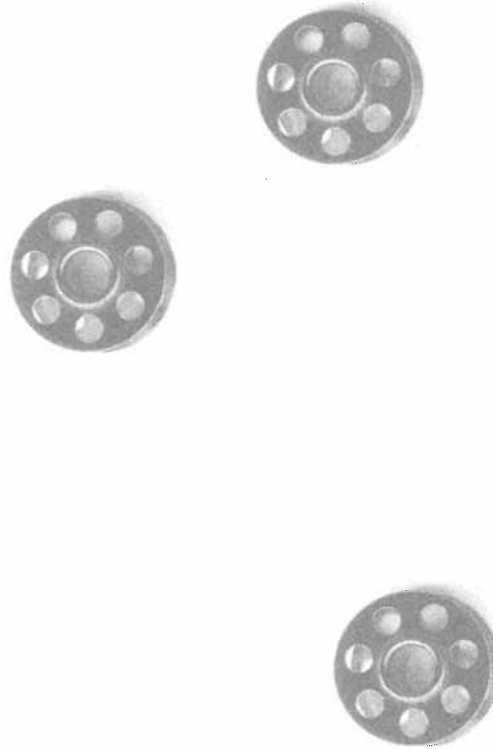
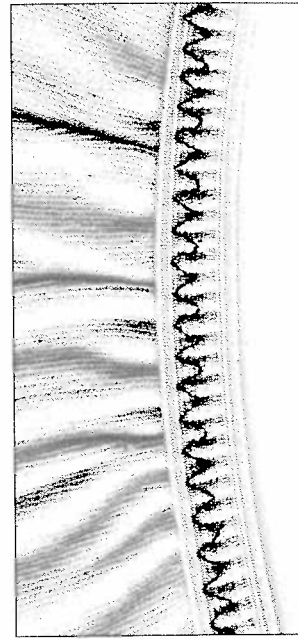
Wide elastic
 for finishing openings on sports wear and lingerie

Preparation

- cut elastic to length required
- divide opening and elastic into 4 equal sections and mark
- pin elastic to opening, matching up markings

Sewing

- as you sew, stretch the elastic to fit the opening
- trim surplus fabric



TIP

Gather the fabric edge first

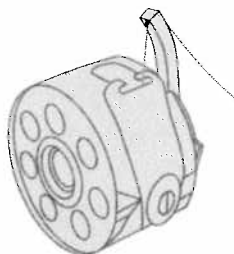
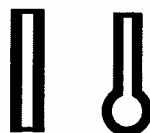
- makes it easier to sew on elastic = elastic remains flat when sewing

Elastic is stretched

- reduce the presser foot pressure to suit fabric and elastic

Standard and *keyhole buttonholes (*only activa 140)

Stitch: **Buttonhole**
 Needle: **80**
 Thread: **machine/darning thread**
 Feed-dog: **sewing**
 Presser foot: **Buttonhole foot no. 3**



Preparation

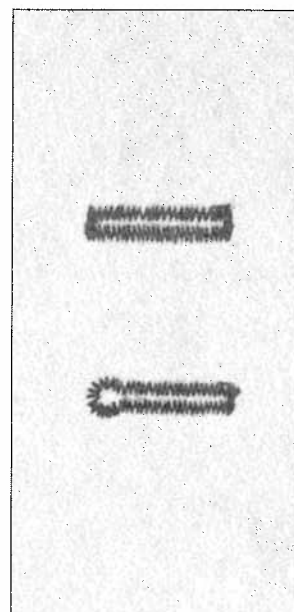
- thread bobbin thread in finger on bobbin case

Sewing test

- prepare test sample of the same fabric and stabilizer to be used in finished garment
- select buttonhole

Sew test buttonhole

see instruction manual



Corrections

Delete auto

- with clr button

Alter bead width

- adjust stitch width

Alter stitch length

- stitch length adjustments affect both beads (denser or finer)
- after adjusting the stitch length, program buttonhole again!

Balance

- affects both beads

1. denser bead
2. finer bead



1. finer bead
2. denser bead

- after adjusting the balance, program buttonhole again!

Balance

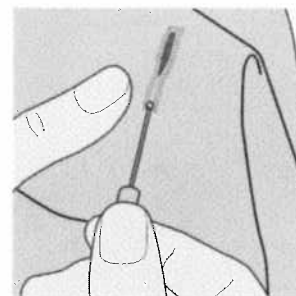
When buttonholes are complete, return balance to normal setting!

Marking buttonholes

- mark beginning of buttonhole

Sewing buttonholes

- buttonhole is programmed after test sewing
- bring needle into center of presser foot
- insert needle at beginning mark of buttonhole
- lower the presser foot
- sew buttonhole
- machine stops automatically when buttonhole is complete
- machine is ready to sew the next buttonhole
- sew remaining buttonholes



Cutting buttonholes open

- using the seam ripper or the buttonhole cutter and block (optional accessory)
- cut from the ends towards to the middle

Standard buttonhole with gimp



Gimp

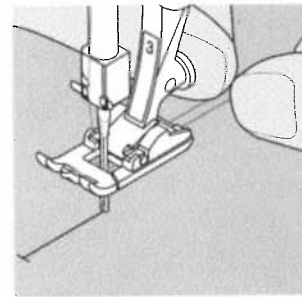
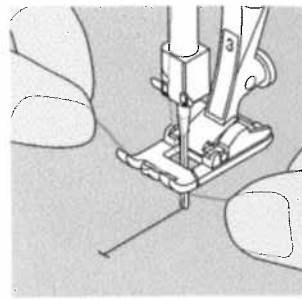
- gimp reinforces buttonholes and gives them a nicer appearance
- the loop lies at the end of the buttonhole most subject to wear
- Button position = gimp loop
- Place work under the presser foot accordingly

Gimp

- perle yarn no. 8
- strong hand sewing thread
- fine crochet hook

Hooking on the gimp

- insert needle at beginning of buttonhole
- presser foot raised
- hook gimp over the center prong on the buttonhole foot (front)
- take both ends through the grooves in the presser foot sole to the back
- lower the presser foot



Sewing buttonholes

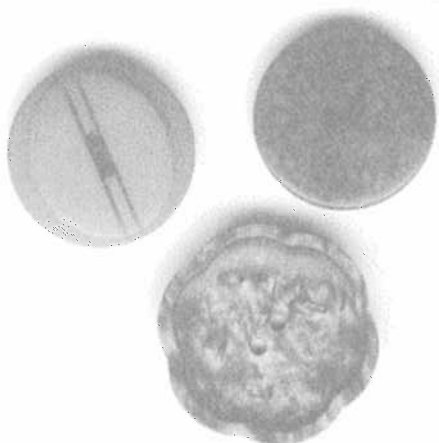
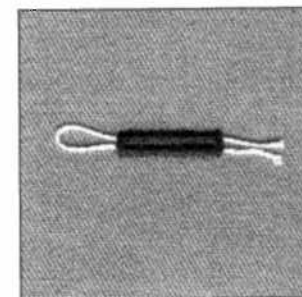
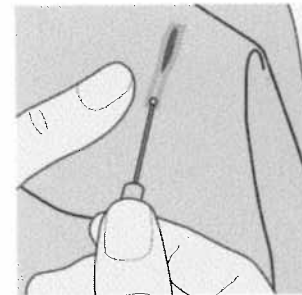
- sew buttonhole
- do not pull on the gimp

Securing gimp

- pull loop through
- take ends through to wrong side (darning needle)
- knot or secure by sewing

Cutting buttonholes open

- use the seam ripper or the buttonhole cutter and block (optional accessory)
- cut from both ends towards the middle



Edging knits with shirring elastic



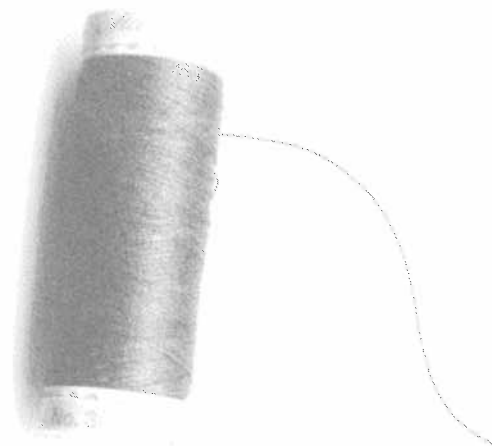
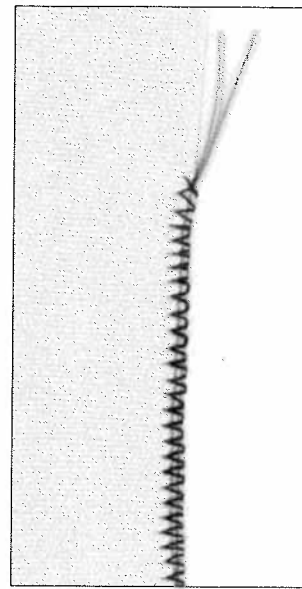
Stitch: **Zig-zag**
 Stitch width: **approx. 5**
 Stitch length: **1–1.5**
 Needle: **80/70**
 Thread: **darning thread**
 Feed-dog: **sewing**
 Presser foot: **Reverse pattern foot no. 1**

Edges in knits with shirring elastic

prevents openings from stretching and helps retain their shape

Sewing

- guide double length of shirring elastic along the edge of the fabric
- stretch the elastic lightly
- oversew with zig-zag



TIP

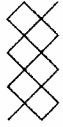
Pulling in and reinforcing openings

- do not sew on the elastic, only over it
- adjust elastic afterwards to regain the correct shape and size

Stretch fabrics stretch while sewing

- reduce the presser foot pressure to suit the fabric

Patches on woven fabrics



Stitch: **Running stitch/
*Honeycomb** (*only activa 140)
Needle: **80/70**
Thread: **darning thread**
Feed-dog: **sewing**
Presser foot: **Reverse pattern foot no. 1**

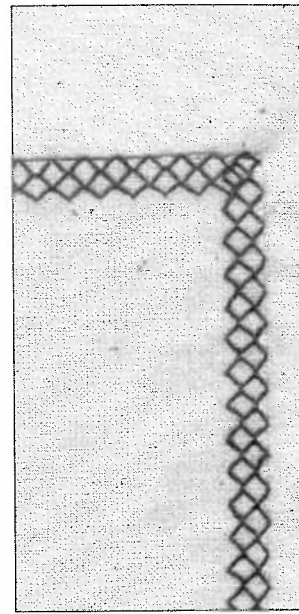
Disguises worn or torn areas
in medium to heavy weight fabrics, especially clothing

Preparation

- do not cut damaged area
- pin and baste patch to right side

Sewing

- sew over edges with Honeycomb or Running stitch
- Honeycomb stitches should be on the patch – needle pierces just inside the outer edge
- sew a row of straight stitches on the inside edge of the Honeycomb stitch – this makes it easier to cut away the damaged fabric
- cut away damaged fabric



Patches on knits and jersey



Stitch: **Jersey stitch** (only activa 140)
Needle: **80/70**
Thread: **darning thread**
Feed-dog: **sewing**
Presser foot: **Reverse pattern foot no. 1**

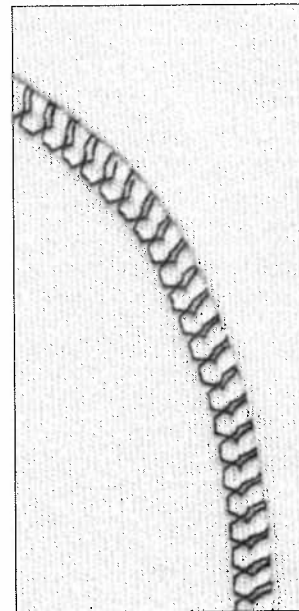
Disguises worn or damaged areas
particularly for stretchy fabrics, especially underwear

Preparation

- do not cut damaged area
- round off patch to retain elasticity
- pin and baste to right side

Sewing

- sew over edge
- sew a second row inside the first if necessary
- cut away damaged area



TIP

Knits

- use a new needle to prevent damaging the loops

Sewing stretch fabrics

- if necessary use a stretch needle (130/705 H-S) = needle slides between the fibers

Fabric stretches and waves

- reduce presser foot pressure to suit the fabric

Darning and mending tears with Running stitch



Stitch: **Running stitch**
 Needle: **80/70**
 Thread: **darning thread**
 Feed-dog: **sewing**
 Presser foot: **Reverse pattern foot no. 1**
 Function: **permanent reverse sewing**

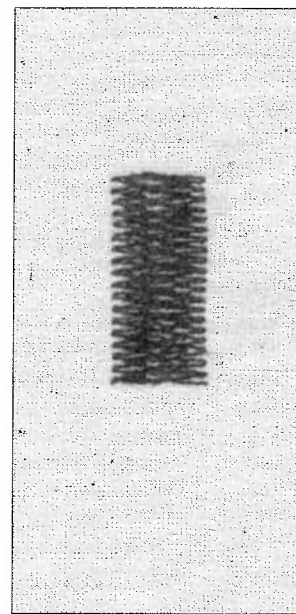
Quick mends
 for tears and worn areas on all types of fabric

Preparation

- for tears use a fine backing fabric

Sewing

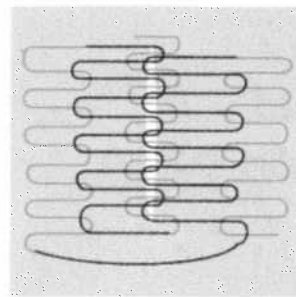
- tears: sew 3–5 rows of Running stitch
- worn areas: sew as many rows as necessary next to one another
- overlap each row slightly over the previous one



Method

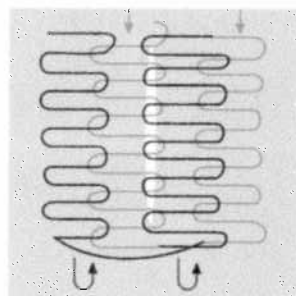
flat areas

- sew forwards
- insert needle
- turn work
- sew forwards again



tubular areas (trousers, sleeves)

- sew first row forwards
- select permanent reverse sewing function
- sew second row in reverse
- delete function
- sew next row forwards again
- repeat as necessary



TIP

Backing for tears

- instead of fine fabric, use a piece of gauze or soft interlining

Darning program



Stitch: **Darning program**
 Needle: **80/70**
 Thread: **darning thread**
 Feed-dog: **sewing**
 Presser foot: **Reverse pattern foot no. 1**

Quick darning for worn or torn areas; replaces lengthways threads in all fabrics

Preparation

- stretch fabric into darning ring*
- prevents puckering

Sewing

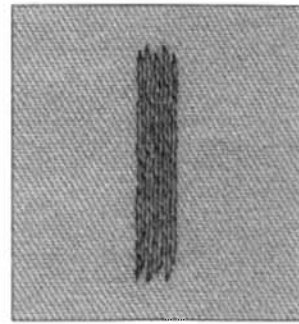
- sew first row
- press quick reverse button (first length programmed)
- sew second row
- press quick reverse button (second length programmed)
- complete darning program, machine stops automatically
- large areas:
 alter needle position
 start darning program again (length is programmed)



Corrections

- darning pulls to the side
- correct with balance

*The darning ring is available as special accessory.



TIP

Reinforcement

- use fine fabric or interlining as a backing

Darning

Stitch: **Straight stitch**
 Needle: **80/70**
 Thread: **darning thread**
 Feed-dog: **darning (lowered)**
 Presser foot: **Darning foot no. 9 (optional)**

Darning holes or worn areas

replaces both lengthways and horizontal threads in all fabrics

Preparation

- stretch fabric into darning ring*
- prevents puckering
- if possible, use the sewing table

Sewing

- move darning ring smoothly
- work from left to right
- move without using pressure

Method

- sew first row
- turn work by 90°
- sew over the first row – not too close for a soft finish
- turn work by 90° again
- complete darning loosely and in same direction as first row

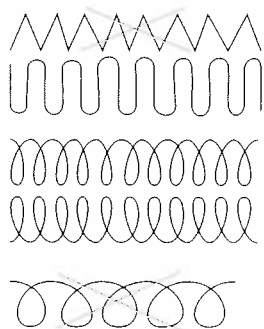
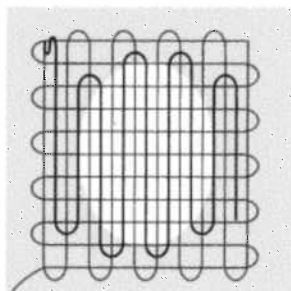
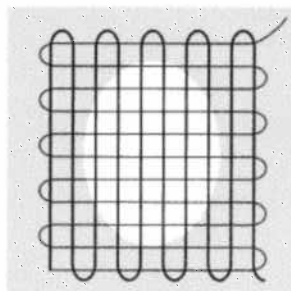
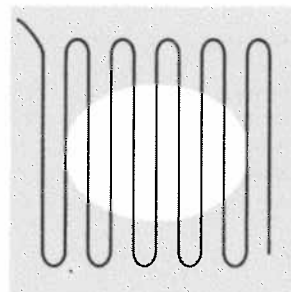
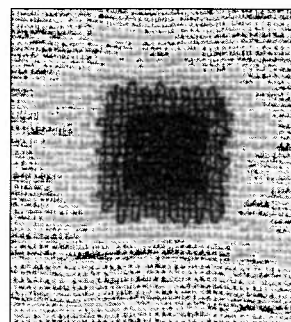
- in tubular items
 first step in a horizontal direction
 second and third steps in lengthways direction

- when you have mastered the technique
 work the rows in irregular lengths so that the ends are lost in the fabric

Important

- change direction in curves (no points)
 = prevents holes
 = prevents thread breakage
- move as if writing L or M
- do not sew in circles = these do not mimic fabric construction

*The darning ring is available as special accessory.



TIP

Thread breaks

- uneven movement of darning ring

Stitch formation is not good, thread lies on top

- ring moved too quickly

Knots on the underside

- ring moved too slowly

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