

Instruction Manual & Sewing Manual



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:

- 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.
- 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 i may also be marked on the product.

SAVE THESE INSTRUCTIONS!

This sewing machine is intended for household use only.

BERNINA®



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"Welcome to

the **BERNINA**

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.

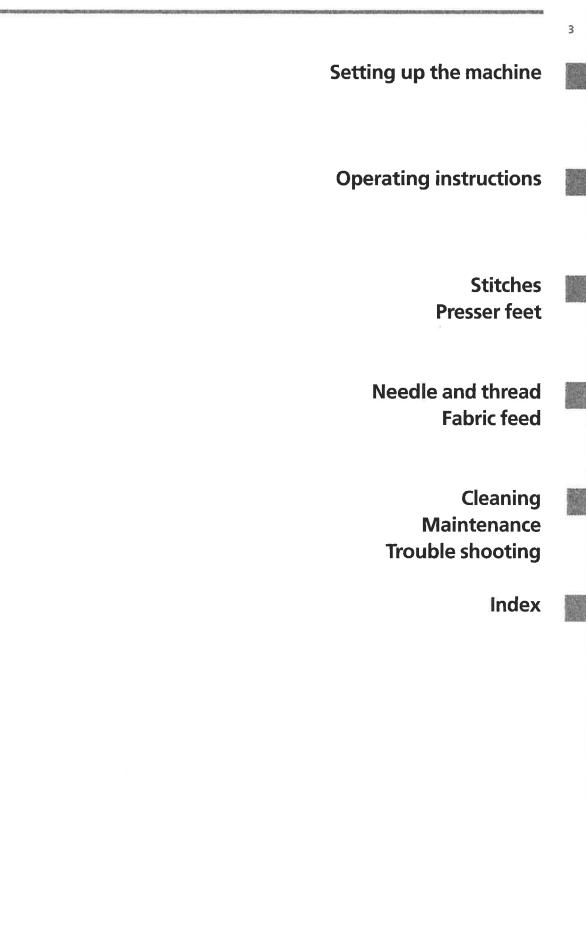
It gives me great pleasure to welcome you into the BERNINA family.

family"

H.P. Jumli

H.P. Ueltschi Owner BERNINA Sewing Machine Company

Fritz Gegauf Ltd. · BERNINA Sewing Machines · CH-8266 Steckborn / Switzerland



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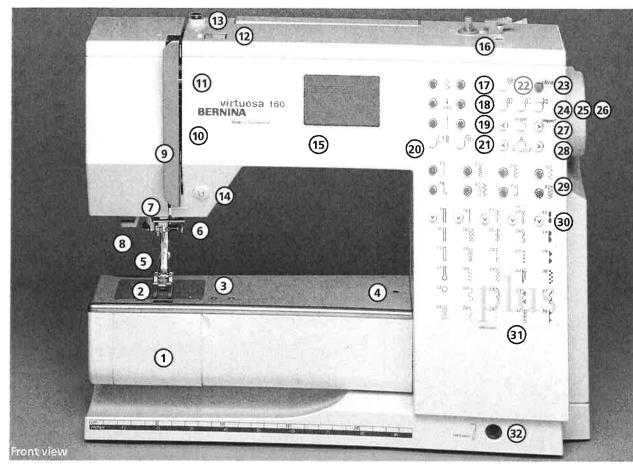
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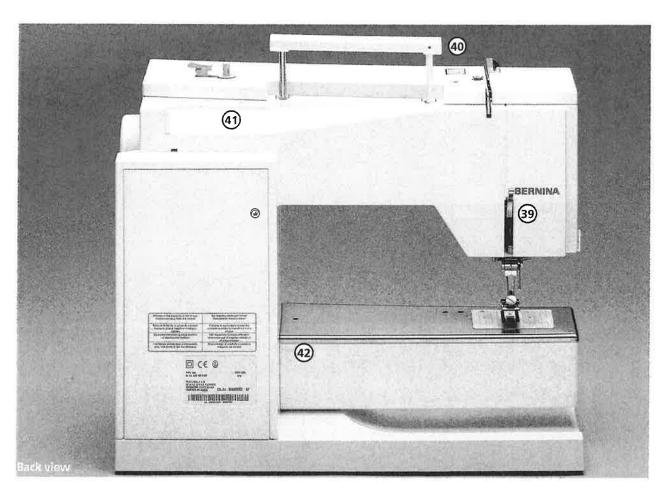
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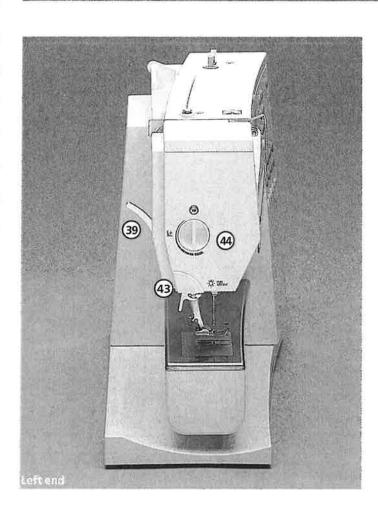
Details

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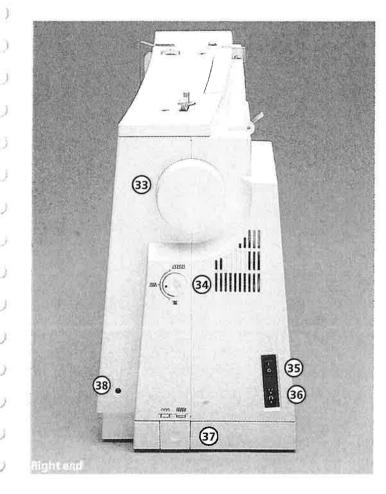
Details of the machine







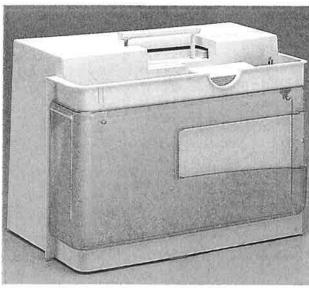
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- 1 Bobbin cover
- 2 Stitch plate
- 3 Attachment base
- 4 Darning ring fixation hole
- 5 Presser foot
- 6 Needle clamp 7 Thread guide
- 7 Thread guide
- 8 Needle threader (virtuosa 160 only)
- 9 Thread regulator
- 10 Thread slit
- 11 Thread take-up
- 12 Tension adjustment wheel
- 13 Bobbin pre-tension
- 14 Quick reverse button
- 15 Screen
- 16 Bobbin winder with on/off switch and thread cutter
- 17 Stitch width
- 18 Needle position
- 19 Stitch length
- 20 Continuous reverse
 - Stitch counter buttonhole selector
- 21 Securing function
- 22 ½ speed
- 23 clr button
- 24 Mirror image
- 25 Pattern end
- 26 Needle stop up-down
- 27 **mem**
- 28 Alphabet
- 29 Stitch selection
- 30 Stitch group selection
- 31 CPS Customized Pattern Selection
- 32 FHS Presser foot lifter fixation hole
- 33 Handwheel
- 34 Balance
- 35 On/off power switch
- 36 Plug socket
- 37 Drop feed dog
- 38 Foot control socket
- 39 Presser foot lifter
- 40 Carrying handle
- 41 Spool pins
- 42 Sewing table socket
- 43 Thread cutter
- 44 Presser foot pressure

Carrying case

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Carrying case

- · protects machine from dust and dirt
- compartment for accessories

Accessories

- foot control
- instruction manual

To remove the case • grasp both sides • pull off vertically

- power cable
 warranty card
- · presser foot lifter (FHS)
- sewing table * (attached)
- To remove the sewing table, lift slightly and remove.
- * Available as special accessory for virtuosa 150 QE

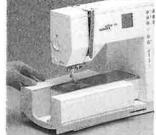


Note: The separate spool pin must be removed to put the case on.

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:

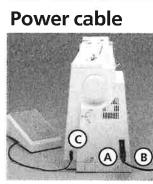
To remove the box, the hinged bobbin case cover on the free-arm must be closed.



Standard accessories *: 5 bobbins Needle selection 130/705H

Seam ripper Small screwdriver Special screwdriver Brush Seam guide Reverse feed foot #1 Buttonhole foot #3 Buttonhole foot with slide #3A** Zipper foot #4 Blind stitch foot #5 Patchwork foot #37 Height compensating plates

- Supplementary spool pin 3 spool discs 2 special BERNINA presser feet of your choosing * can vary from country to country ** Available as special
 - Available as special accessory for virtuosa 150 QE



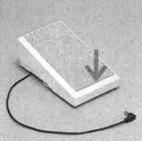
The power cable is stored in the case

- 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 electrican to install the proper outlet. Do not modify the plug in any way.

Foot control

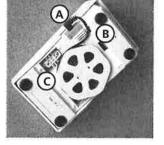


The foot control regulates the sewing speed

· 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 virtuosa 150/160.



Self storing cord

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

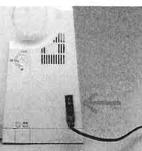
When sewing

Refer to the safety

instructions!

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

Power switch



The switch is on the handwheel side of the

- switched on
- switched off

switched on and off with the power switch.

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 quide

- · 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 virtuosa 150

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.

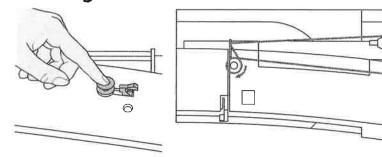
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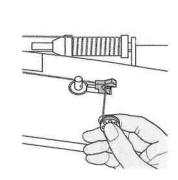
machine • 1 the machine is

0 the machine is

The sewing light is

Winding the bobbin





thread cutter

Refer to the safety

instructions!

following the direction of the arrow take thread through 👘 cut the thread on the the rear guide and round the pre-tension stud

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- wind it several times round the empty bobbin press the engaging lever against the bobbin
- press the foot control

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To insert

latch

cover

until it clicks

· close the bobbin cover

· close the accessory box

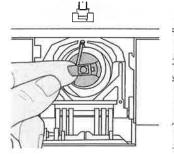
- the motor will stop automatically when the bobbin is full
- remove the bobbin

Bobbin case

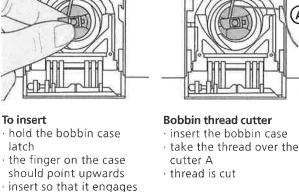
Winding the bobbin - turn power switch on

spindle

· place empty bobbin on

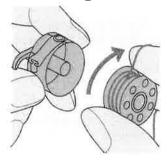


- To remove
- · raise the needle
- · turn power switch to 0
- · open the accessory box cover
- · open the bobbin cover
- · grasp the latch of the bobbin case
- · remove case



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



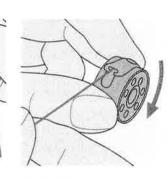
Insert the bobbin so that the thread runs clockwise.



Pull the thread counter clockwise into the slot.

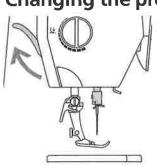


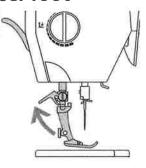
Pull the thread to the left under the spring until it lies in the T-shaped slit at the end of the spring.



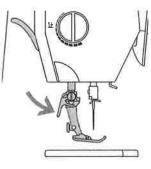
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Changing the needle Image: I





- Presser foot with shank raise the needle and
- presser foot • turn power switch to 0
- raise the clamping lever
 remove the presser foot

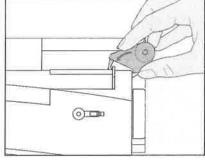


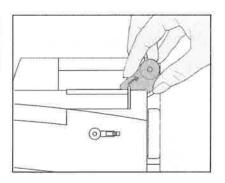
- Attaching the presser foot · guide the foot upwards over the cone · press the clamping lever down
- Refer to the safety instructions!

Supplementary spool pin

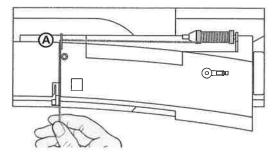
Vertical spool pin

- the supplementary (vertical) spool pin is stored with the accessories
- · push it from right to left in the opening provided
- · pull it to the right to remove
- essential when sewing with more than one thread, e.g. for double needle work





Threading the upper thread



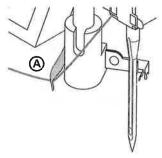
- raise the needle and presser foot
- a turn the power switch to 0
- place spool on pin and attach the appropriate spool disc
 diameter of spool = disc size
- * take thread through rear guide A
- then into slit of upper thread tension
- ^a pull thread down to the right of the take-up cover to B
- then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

Refer to the safety instructions!

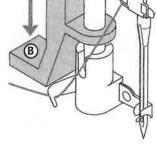
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(E)

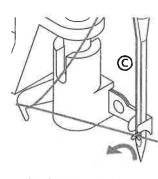
Needle threader (virtuosa 160 plus only)



 lower the presser foot
 lay the thread behind hook A and hold lightly



🗄 press lever B down



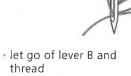
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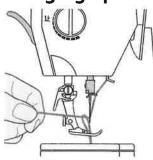
B

 take the thread in front of the needle C
 pass the thread from the bottom to the top of the needle until it catches in the hook



 pull the thread loop through the needle eye

Bringing up the lower thread

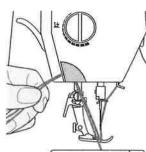


- hold the upper thread
 sew one stitch
- pull the upper thread until the bobbin
- thread appears in the stitch plate hole
- pull bobbin thread out of the hole and insert both threads through the slit in the presser foot towards the back
- pull threads over the cutter

Note:

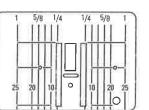
The bobbin thread must be brought up through the stitch plate for certain types of work. The length of thread is sufficient for most normal work if the lower thread cutter has been used.

Thread cutter



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

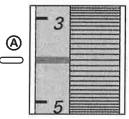
Stitch plate



Stitch plate markings

- the stitch plate is marked with seam guide lines in mm and inches
- \cdot the millimetre markings are at the front
- the inch markings are at the back
 the measurements indicate the distance
- from the needle to the lines
- · the needle insertion point is 0
- (= needle position centre)
- · lines are provided to the right and left of the needle

Thread tension



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.

they are very useful guide lines for precise seaming

 the horizontal lines are useful for buttonholes, etc.

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

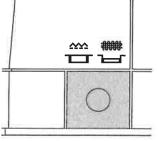
To reduce the tension

 \cdot turn to between 3 and 1

To increase the tension

 \cdot 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.)

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General instructions

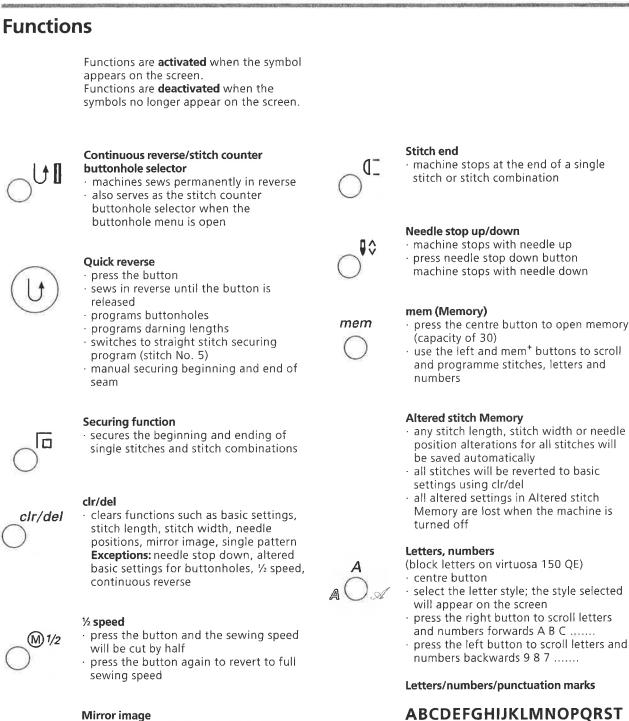
Main switch to 1 · the machine is ready to sew ()1 0 19 0 8 0 85 0 0 The screen shows 5 5.5 1 3 2 4 5 1 1 stitch width basic setting blinks constantly 4 6 . . 2 stitch length basic setting blinks constantly 3 3 • (4) 3 needle position (9 positions) 2 1 4 needle stop up/down (generally up) 1. (5) 6 2 5 stitch number 1 (straight stitch) 6 presser foot indicator (recommended foot for selected stitch) 2 × × 322 Stitch selection · press the appropriate button – the number and basic stitch length and width settings appear on the screen 0 `||} \heartsuit \odot \odot \heartsuit (\mathbf{v}) · These buttons are to select vertically arranged stitches Stitch width \cdot left button = narrow the zig-zag (> \cdot right button = widen the zig-zag Needle position · left button = needle to the left (> · right button = needle to the right Stitch length \cdot left button = shorten the length (Λ) \cdot right button = elongate the length Needle stop adjustment ₿\$ press button = needle stop down · machine stops with needle down (in fabric) \cdot press button = needle stop up clr/del button clr/del · deletes altered basic settings · deletes selected functions **Exceptions:** · needle stop up/down · altered basic settings for buttonhole

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· ½ speed



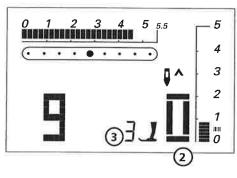


mirror image
 mirror image of selected stitch will be sewn

ABCDEFGHIJKLMNOPQRST UVWXYZ_-.'!?%()[]ÄÖÜÅ ÆŒØÑÈÉÊÀÂ0123456789

Buttonholes

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All buttonholes can be sewn in all styles.

Preparation

· thread the lower thread in the finger of the bobbin case · use Buttonhole foot No. 3 or 3A

Buttonholes are not only practical closures, they can also be used to decorative effect

- No. 9 Standard buttonhole
- No. 10 Narrow standard buttonhole*
- No. 11 Stretch buttonhole*
- No. 12 Keyhole buttonhole
- No. 13 Straight stitch eyelet

Select the buttonhole of your choice, the following appears on the screen:

(*virtuosa 160 only)

- 1 Buttonhole number 2 Buttonhole symbol
- 3 Presser foot number

Manual 4/6 step buttonhole (all types)

Manual buttonholes are particularly suitable for single buttonholes or for repairing existing buttonholes. Individual steps can be eliminated or repeated. The number of steps

corresponds to the buttonhole type. Manual buttonholes cannot be saved.

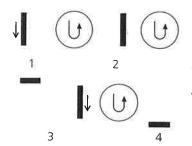
Manual multiple-step standard and stretch buttonhole

Both beads are sewn in the same direction.

Preparation:

- · Buttonhole foot No. 3
- · insert the lower thread in the finger of the bobbin case

The individual steps blink on the screen



- 1. sew the first bead forward, stop the machine, press the quick reverse button
- 2. sew reverse straight stitch, stop the machine at the first stitch (buttonhole begin), press the quick reverse button
- 3. sew the top bar tack and the second bead, stop the machine, press the quick reverse button
- 4. sew the bottom bar tack and securing stitches

Manual multiple-step keyhole buttonhole

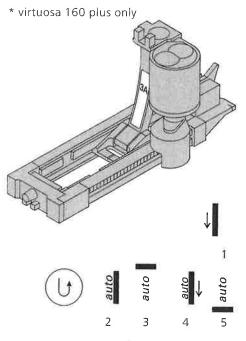
3 5 4

The individual steps blink on the screen. Sew both forward and reverse beads at the same speed.

- 1. sew straight stitch forwards, stop the machine, press the quick reverse button
- 2. sew the eye and the first bead in reverse, stop the machine at the first stitch (buttonhole begin), press the quick reverse button
- 3, sew straight stitch forwards and stop at the keyhole, press the quick reverse button
- sew the second bead in reverse, stop the machine at the first stitch (buttonhole begin), press the quick reverse button 5. sew bartack and securing stitches

See page 22 of the Sewing Manual for an example of a manual buttonhole.

Automatic standard and *stretch buttonholes with auto length



(Buttonhole foot 3A is available as a special accessory for virtuosa 150 QE) (When sewing any type of automatic buttonhole, presser foot No. 3 is displayed at the beginning until programming the first bead length)

Both beads are sewn in the same direction.

Automatic buttonhole

- when using Buttonhole foot 3A the length of the buttonhole is automatically registered by the lens on the foot · the sewing sequence is indicated on the screen

The step currently being sewn blinks on the screen.

Programme the buttonhole

- 1. sew the first bead forwards, stop the machine
 - press the quick reverse button
 - · auto and presser foot 3A are indicated on the screen = the buttonhole length is programmed
- 2. the machine sews reverse straight stitch automatically
- 3. the first bar tack
- 4. the second bead forwards
- 5. the second bar tack and securing stitches

· machine stops and returns automatically to buttonhole begin All subsequent buttonholes will be sewn to exactly the same length

(no need to press the quick reverse button)

Press the clr/del button to delete the programme.

The programmed buttonhole can be saved in the long term memory (see page 18)

Compensating plates for buttonholes (special accessory)

If a buttonhole is to be sewn horizontally to the edge of the garment, it is worth using the compensating plates.

This accessory provides an even surface for the buttonhole foot with slide which results in a perfect buttonhole (see Sewing Manual tips page 21).

Automatic keyhole buttonhole Both beads are sewn in the same direction. Automatic keyhole buttonhole when using Buttonhole foot 3A the length of the buttonhole is automatically registered by the lens on the foot Marking the buttonhole Mark the bead length only. The correct eye length will be added when the buttonhole is sewn. The sewing sequence is indicated on the screen. The step currently being sewn blinks on the screen. Programming the buttonhole auto 1. sew the straight stitch forward, stop the machine, press the quick reverse button auto and presser foot 3A are displayed on the screen = buttonhole length is programmed auto 2. the machine automatically sews the eye auto auto 3. the first bead in reverse 4. sews second straight stich 3 4 5 5. sews second bead in reverse 6 6. sews bartack and securing stitches • the machine stops and returns automatically to buttonhole begin · all subsequent buttonholes will be sewn to exactly the same length (without pressing the quick reverse button) Press the clr/del button to delete the programme. The programmed buttonhole can be saved in the long term memory (see page 18).

(Buttonhole foot 3A is available as a special accessory for virtuosa 150 QE)

See page 24 of the Sewing Manual for an example of the automatic keyhole buttonhole.

Stitch counter buttonholes (all types)

The first bead is sewn forwards, the second bead in reverse. Sew forward and reverse beads at the same speed.

Preparation:

- · Buttonhole foot No. 3 or Automatic foot 3A
- \cdot insert the lower thread into the finger of the bobbin case

Always test sew buttonholes

- · test on the fabric and stabilizer you intend to use
- · sew buttonholes in the same grain direction (with or against)

Programmed buttonholes on other fabrics

- the appearance of a programmed stitch counter buttonhole can vary depending on the fabric
- · program on the fabric you intend to use

Corrections

- the buttonhole must be reprogrammed after altering the stitch length, width or balance
- · test sew on the fabric you intend to use

Select buttonhole

 press the reverse sewing button with the buttonhole symbol to select stitch counter buttonholes

- auto and presser foot No. 3 blinks on screen

The step currently being sewn blinks on the screen

- 1. sew the first bead forwards and stop the machine
- press the quick reverse button
- 2. sew the bottom bartack or eye and the second bead in reverse
 stop the machine at the first stitch (buttonhole begin)
 press the quick reverse button
- 3. sew the top bartack and securing stitches
 - · the machine stops automatically

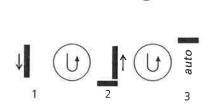
 \cdot «auto» appears on the screen = the buttonhole is programmed all subsequent buttonholes will be sewn to exactly the same length without interruption and the machine stops automatically at the end of each buttonhole

Press the clr/del button to delete the programme

Note:

Stitch counter buttonhole cannot be saved in the long term memory

Examples of stitch counter buttonholes can be found on page 25 of the Sewing Manual



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		and the second se	
9	mem	mem+	Saving programmed buttonholes in long term memory · after programming press the mem ⁺ -button
	\cap	0	• the buttonhole is now saved in long term memory
	\bigcirc	\odot	 stitch counter buttonholes cannot be saved in long term memory
			Opening saved buttonholes
			Programmed saved buttonholes can be opened for re-use even after the machine has been disconnected.
			· select the buttonhole
			· press the mem button
			· sew the programmed buttonhole
			 only one of any style buttonhole can be saved, if a new length is saved with mem⁺, it overwrites the previously saved buttonhole
			The automatic darning program can be saved and opened in the same
			way as programmed buttonholes.
			Altering buttonholes
			· alterations to the stitch length and width affect both beads
			· after altering the stitch length, program the buttonhole again
			· altered stitch length/widths can be deleted by pressing the clr/del
			button
			- 1
			Balance
		72277	 any changes to the balance affect both beads of manual and auto
252525	12 ×	4	
	2	12	length buttonholes because both beads are sewn in the same direction
	2		
	2		length buttonholes because both beads are sewn in the same direction · any distortions to keyhole buttonholes can be corrected with balance
	2		length buttonholes because both beads are sewn in the same direction · any distortions to keyhole buttonholes can be corrected with balance
			length buttonholes because both beads are sewn in the same direction · any distortions to keyhole buttonholes can be corrected with balance · changes to the balance of stitch counter buttonholes affect the beads
Denser bead	1. Finer I	bead	 length buttonholes because both beads are sewn in the same directior any distortions to keyhole buttonholes can be corrected with balance changes to the balance of stitch counter buttonholes affect the beads as shown in the illustration balance affects the individual beads and the eye
Denser bead		bead	 length buttonholes because both beads are sewn in the same directior any distortions to keyhole buttonholes can be corrected with balance changes to the balance of stitch counter buttonholes affect the beads as shown in the illustration balance affects the individual beads and the eye When altering the bead density with balance, delete the programmed
	1. Finer I	bead	 length buttonholes because both beads are sewn in the same directior any distortions to keyhole buttonholes can be corrected with balance changes to the balance of stitch counter buttonholes affect the beads as shown in the illustration balance affects the individual beads and the eye

Note: When all buttonholes have been sewn, return balance to the normal setting

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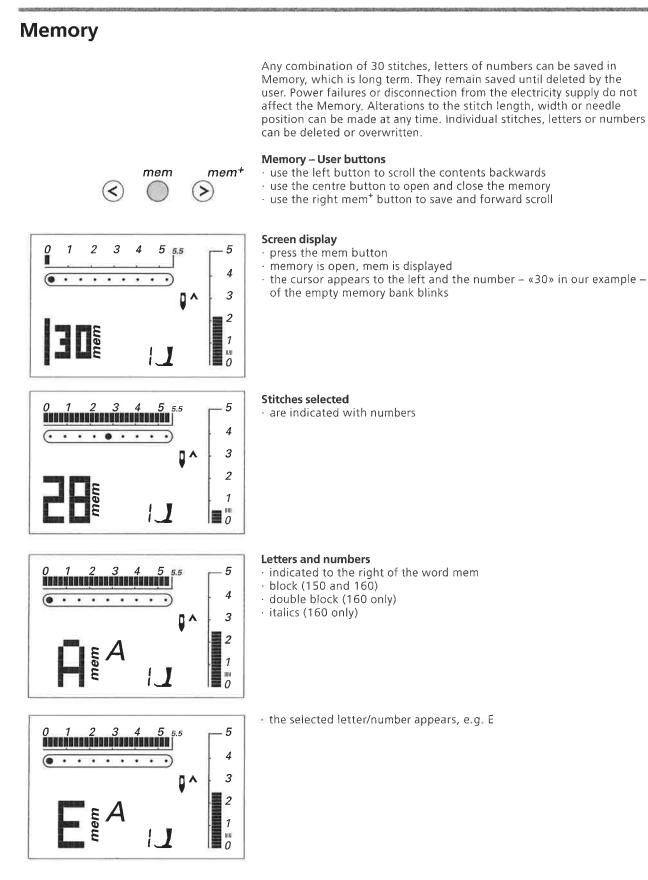
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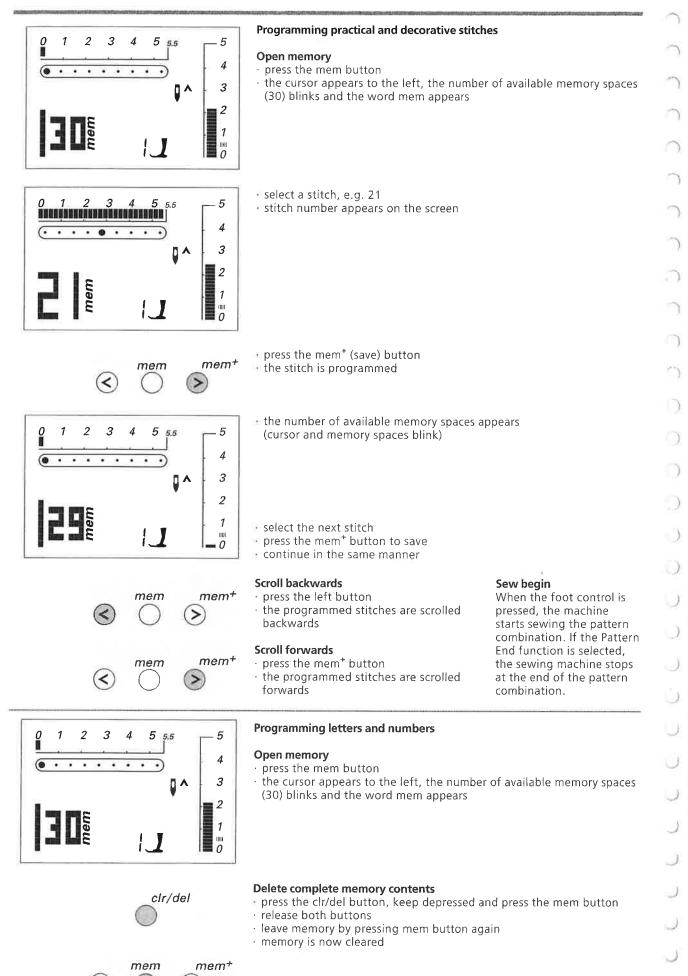
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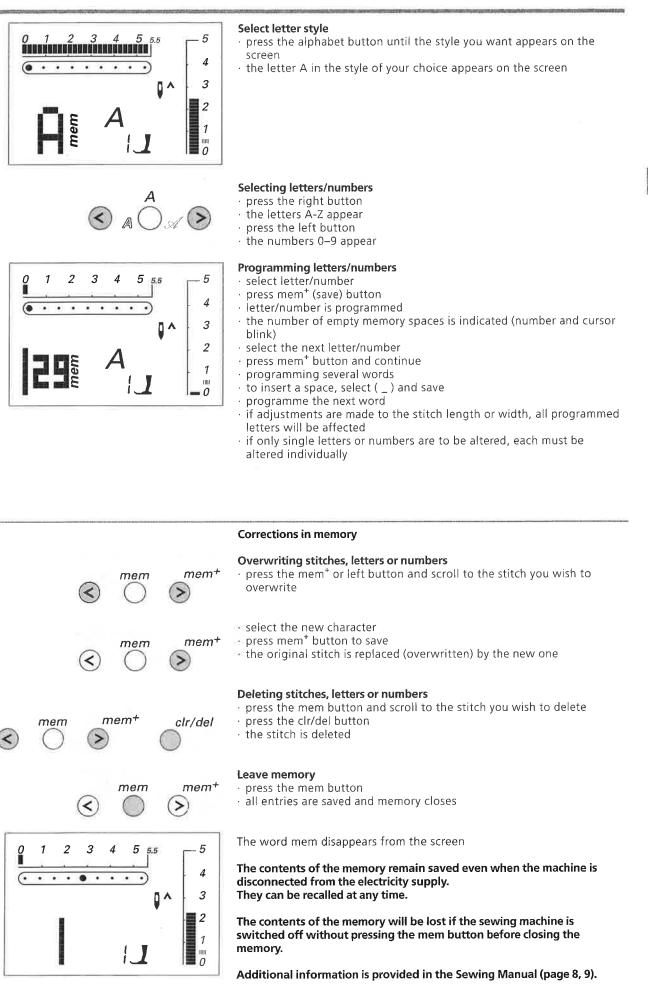


Operating instructions

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Balance

Note:

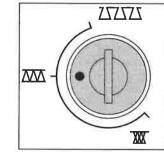
If the balance has been

sewing is completed.

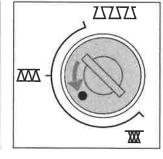
adjusted, return it to the normal setting once



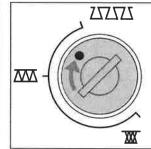
Balance For balancing forward and reverse sewn stitches and for fine stitch length adjustments.



Normal position



Denser stitch formation (shorter stitch length)

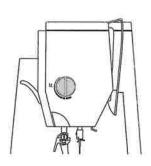


Finer stitch formation (longer stitch length)

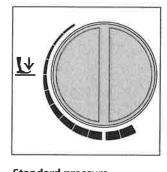
Applications:

Practical stitches, e.g. Honeycomb stitch on jersey, decorative stitches, fantasy stitches, letters, buttonholes, etc.

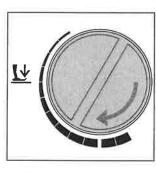
Presser foot pressure



Pressure adjustment left end of machine

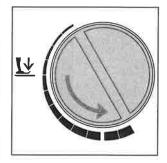


Standard pressure · for normal sewing work



Reduced pressure

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

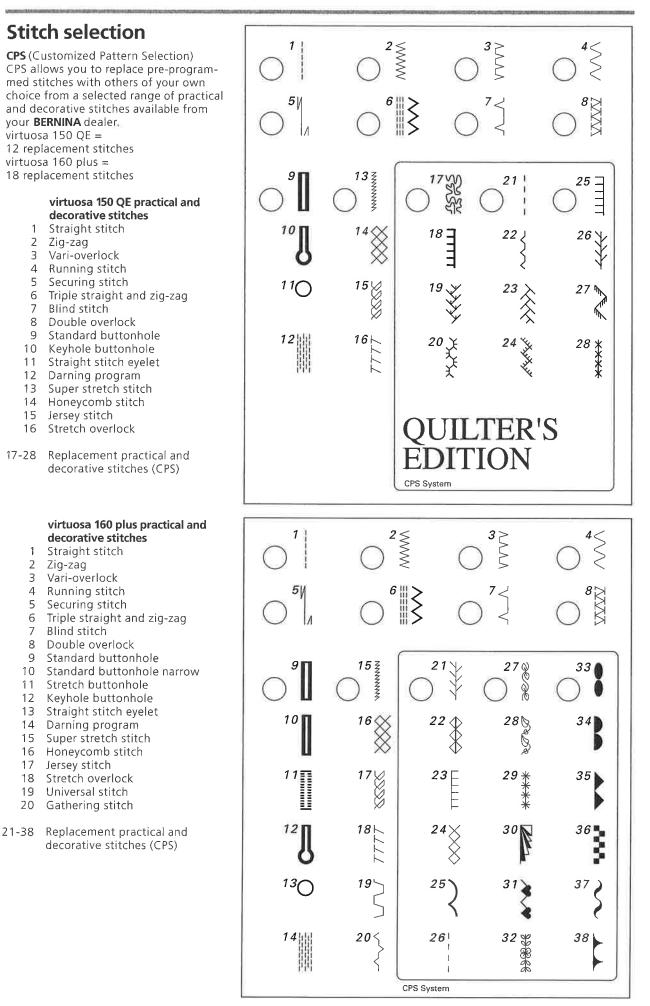


Increased pressure • slippery, light weight fabrics

improves fabric feed

Stitches

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Stitc	h sele	ction	n virtuosa 150 QE			
			1 Straight stitch	All non-stretch fabrics. All straight stitch work		
	²	3	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.		
4	5y	⁶	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.		
ζ	8	13 MMM	8 Double overlock	All types of knit. Overlock = sew and neaten in one operation.		
			13 Super stretch	Open seam for all super-stretch fabrics.		
			14 Honeycomb stitch	Most types of interlock and smooth fabrics. Visible seams and hems.		
*	15	16	15 Jersey stitch	Natural, blended or synthetic fabrics and delicate knits. Visible seams and hems. Mending jersey/interlock.		
			16 Stretch overlock	Medium weight knits, towelling and firm wovens. Overlock seams, flat joining seams.		
12			12 Darning program	Automatic darning for fine and medium weight fabrics.		
			9 Standard buttonhole	Fine to medium weight woven fabrics. Blouses, shirts, trousers, bedlinens, etc.		
° []	¹⁰	¹¹ O	10 Keyhole buttonhole	Heavy weight, non stretch fabrics. Jackets, coats, trousers, leisure wear, etc.		
			11 Straight stitch eyelet	Opening for cords and narrow ribbons.		

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ititc	h sele	ction	virtuosa 160 p	olus
			1 Straight stitch	All non-stretch fabrics. All straight stitch work.
-	2	3	2 Zig-zag	Most fabric types, All simple zig-zag such as oversewing fine fabrics. Sewing on elastic and lace.
1	<	5	3 Vari-overlock	Primarily for fine jerseys, stretch overlock seams and hems,
			4 Running stitch	Most types of fabric. Mending, patching, reinforcing seams
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Ş	8 MMV	15 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	8 Double overlock	All types of knit. Overlock = sew and neaten in one operation.
,		7	15 Super stretch	Open seam for all super-stretch fabrics.
			16 Honeycomb stitch	Most types of interlock and smooth fabrics. Visible seams and hems.
⁵ ×	17	18	17 Jersey stitch	Natural, blended or synthetic fabrics and delicate knits. Visible seams and hems. Mending jersey/interlock.
			18 Stretch overlock	Medium weight knits, towelling and firm wovens. Overlock seams, flat joining seams.
			19 Universal stitch	Firm fabrics such as felt and leather. Flat joining seams, visible seams, sewing on elastic, decorative seams.
°	20	14	20 Gathering stitch	Most types of fabric. Gathering with shirring elastic. Butted seams = butting two pressed edges and sewing together.
_	·		14 Darning program	Automatic darning for fine and medium weight fabrics.
			9 Standard buttonhole	 Fine to medium weight fabrics. Blouses, shirts, trousers, bedlinens, etc.
	10	11	10 Standard buttonhole narrow	 Fine to medium weight fabrics. Blouses, shirts, dresses, trousers, children's and baby clothes.
u	u	==	11 Stretch buttonhole	All stretch fabrics made from cotton, wool silk and synthetic fibres.
			12 Keyhole buttonhole	Heavy weight, non stretch fabrics. Jackets, coats, trousers, leisure wear, etc.
2	¹³ O		13 Straight stitch eyelet	t Opening for cords and narrow ribbons.

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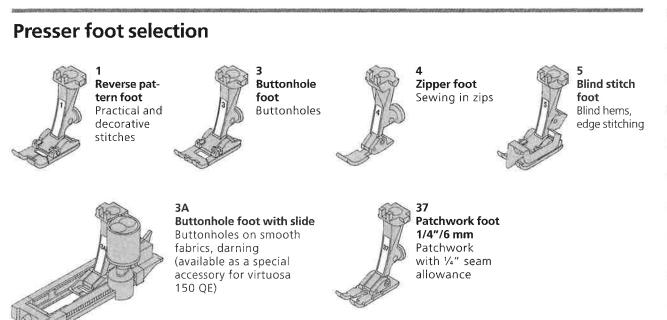
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BERNINA special presser feet (free choice)

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 pintucking and darning.

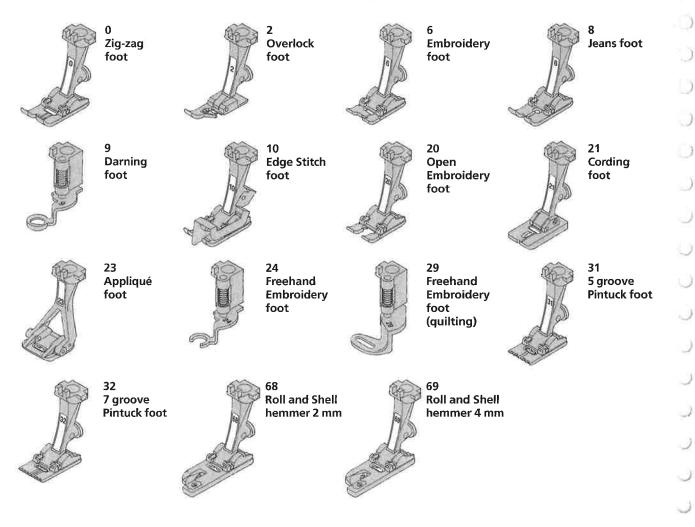
As requirements vary, these presser feet are not included as standard. Instead you can select from a wide variety of special presser feet those that suit your particular sewing requirements. Ask your BERNINA dealer for details of the complete range.

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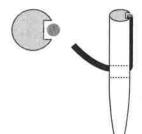
Important facts about sewing machine needles

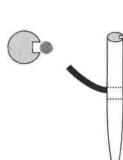
Sewing machine, needle and thread

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.





If the needle is too fine,

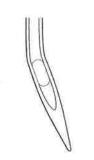
narrow for the thread and faulty stitching or thread breakage can occur.

the groove will be too

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

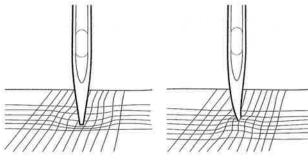
Needle and fabric Condition of needle

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



bent needle

Needle 70 80 90 100 110-120 **Darning thread** 0 0 Embroidery Ο thread Mercerised Ο O cotton thread Synthetic thread O O 0 Thick threads, 0 synthetic mercerised thread **Buttonhole thread** Ο Ο for decorative seams (cordonnet)



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 Н DO	Widths: 1,6 / 2,0 / 2,5 / 3,0 / 4,0	Visible hems in stretch fabrics, c	
friple needle	130/705 H TRI	Widths: 2,5 / 3,0	Decorative sewing	
	not see a second	Width:	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

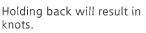




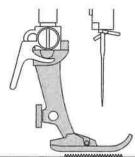


Let the fabric feed evenly!

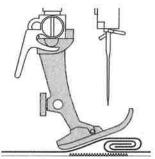
Pulling or pushing will result in gaps.



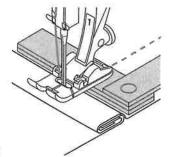
Feed-dog and fabric feed



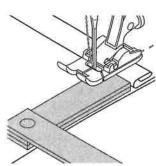
The feed-dog can work normally when the foot is level.



If the foot is at an angle, e.g. when sewing over thick to thin or vice-versa, the feed-dog cannot 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.

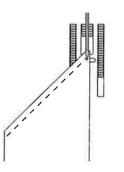


To correct the height in front of the foot, place one or more plates to the right of the foot close to the needle. Sew until the foot is level again and remove the plates.

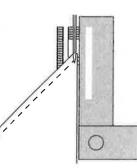
Feed-dog and sewing corners



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



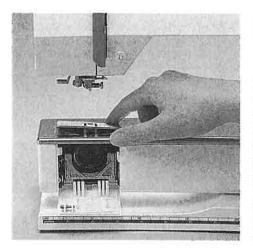
When sewing corners only a small section of the fabric is actually on the feed-dog so that it cannot grip the fabric well.



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

Cleaning

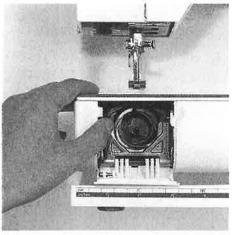
If the machine is stored in a cold room, it should be brought to a warm room about one hour before use.



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
- \cdot lift and remove it
- * clean the area with the brush
- \cdot 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
- remove the nook
- 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
- evinsert the bobbin case

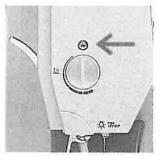
Never use solvents of any

Important!

kind!

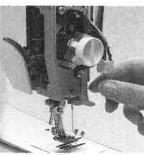
Lubricating This machine is equipped with a LM (low mass) hook system which requires no lubrication. If however you do lubricate any parts, always run the machine immediately afterwards on scrap material to avoid soiling your work.

Sewing light



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

Note:

12 V 5 W. W 2.1 x 9.5 d.

Use bulb type

Refer to the safety instructions!

Light bulbs get hot. Allow to cool down before removal.

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
- \cdot the needle is inserted correctly with the flat side to the back
- the needle size is correct check the needle/thread table
- \cdot 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.
- ³ Lower thread still threaded in the bobbin case finger.
- Machine threaded with foot down.
- Incorrect threading. Check upper and lower threads.
- Use the correct spool disc.

Machine fails to run or runs slowly

- Plug not properly 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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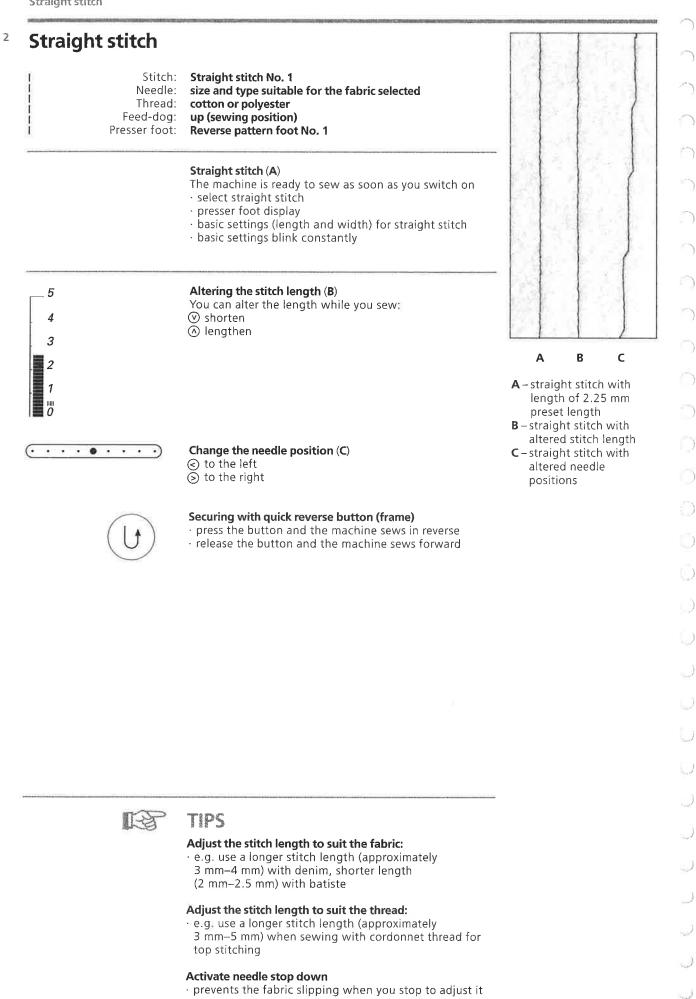
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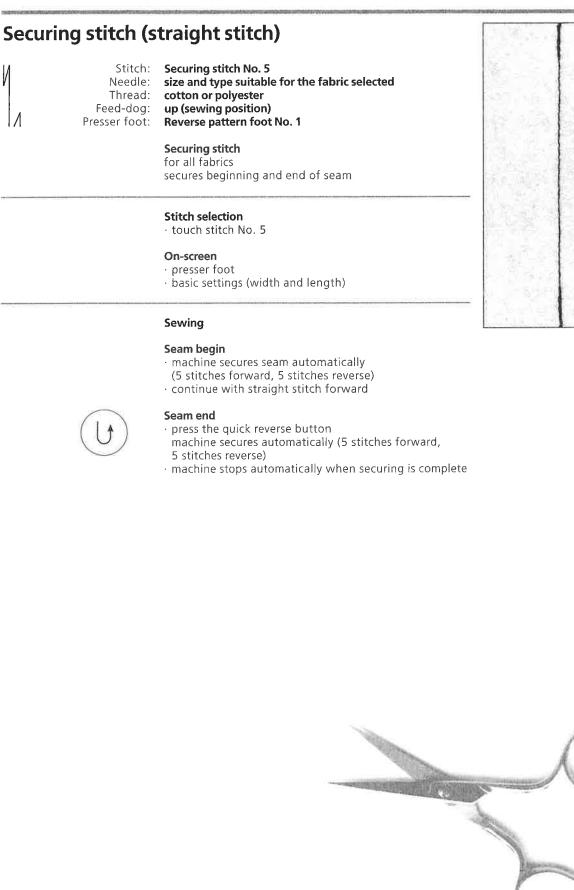
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2–5	Straight stitch/zig-zag
6, 7	Decorative stitches
8, 9	Memory
10–14	Seams, hems with practical stitches
15, 16	Sewing knits
17	Zippers
18	Blind hem
19, 20	Elastic
21–27	Buttonholes/eyelets
28, 29	Quilt stitch
30–34	Darning/mending tears
35	Index







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TIP

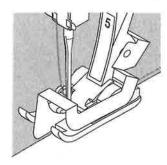
Sewing long seams

· quick and easy securing at beginning and end of seam

⁴ Edge stitching

Stitch: S Needle: s Thread: c Feed-dog: u Presser foot: R

Straight stitch No. 1 size and type suitable for the fabric selected cotton, polyester or cordonnet (topstitching) up (sewing position) Reverse pattern foot No. 1 or Blind stitch foot No. 5 Edge stitch foot No. 10 (optional)



Narrow edge stitching

Needle position

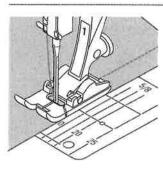
- left for outer edge
 right for inner edge
- Presser foot
- · Blind stitch foot No. 5

Example

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



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



Wide edge stitching

Needle position

· all Presser foot

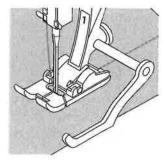
· Reverse pattern foot No. 1

At a foot's width (A)

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

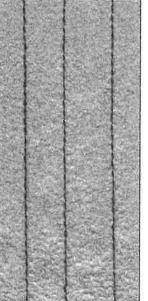
At 1–3 cm (B)

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
- \cdot adjust as desired
- \cdot guide the folded edge along the seam guide
- to sew parallel lines, guide the fabric along a previously sewn line of stitches



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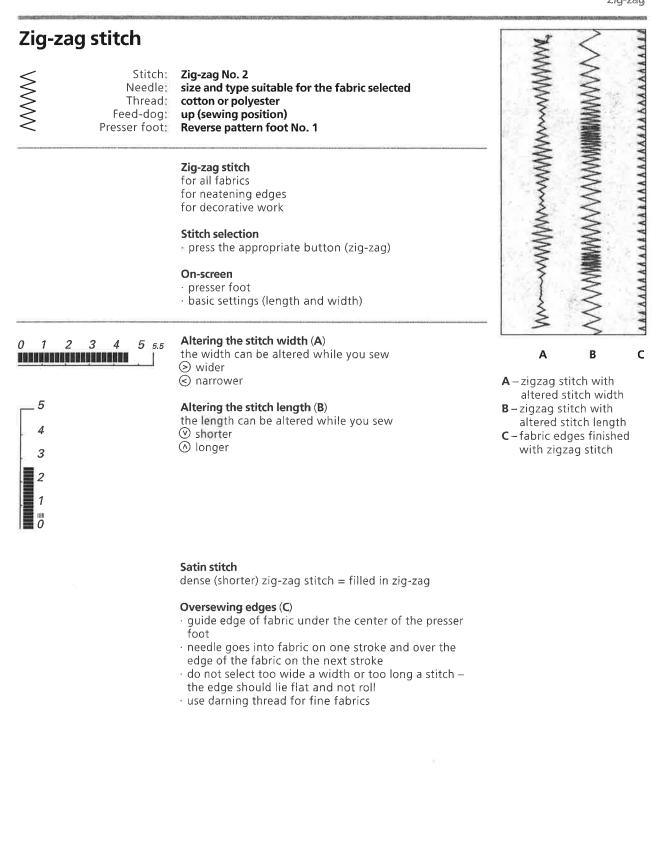
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IN TIP

Edge stitching with seam guide · a big help when sewing parallel lines

Zig-zag



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Oversewing edges with zig-zag

· if edges roll, use Vari-overlock stitch No. 3 and foot No. 2 (optional foot)

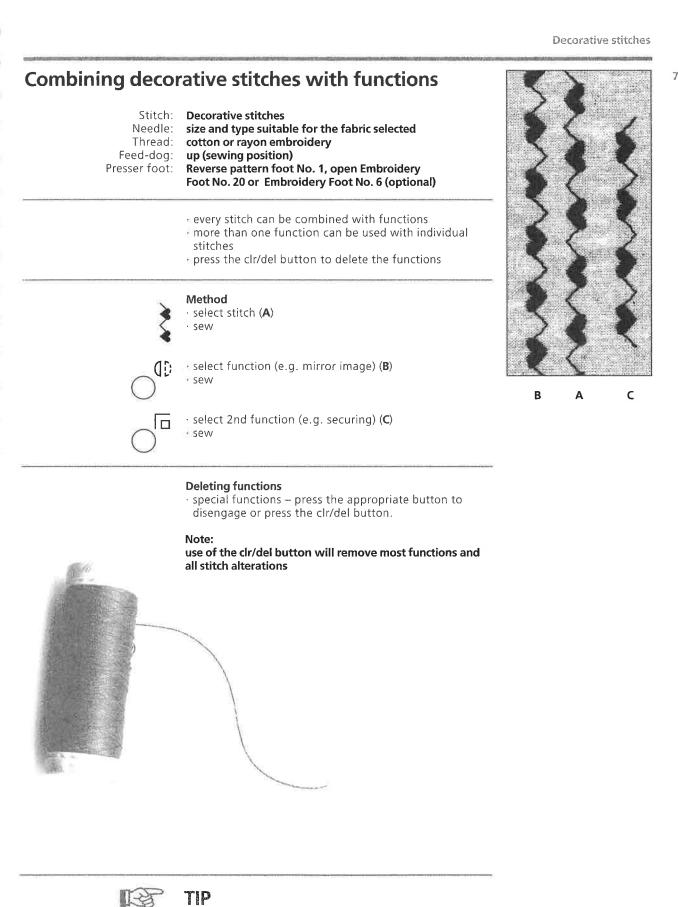
Embroidery with satin stitch

· adjust the stitch width as you sew for new effects

)))

Decorative stitches 6 Stitch: Decorative stitch size and type suitable for the fabric selected Needle: Thread: cotton or rayon embroidery Feed-dog: up (sewing position) Presser foot: Reverse pattern foot No. 1 or No. 6 (depending on stitch) **Decorative stitches** for all fabrics, for embellishing Stitch selection · press appropriate button Altering the basic settings 0 1 2 3 4 Stitch width 5 5.5 ⊘ wider narrower С Stitch length Α В 5 ⊘ shorter ∧ longer A - decorative stitch with 4 preset width and 3 length **B** – decorative stitch with 2 reduced width C-decorative stitch with 1 shortened length 0 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



Activate needle stop down when sewing long seams • prevents fabric slipping when stopping to adjust it

Activate pattern end function:

· machine stops after each stitch pattern

Decorative stitches on single layer of fabric: • always use stabilizer underneath • remove after sewing is complete 8

Practical and decorative stitches in Memory

- · The memory can store up to 30 stitches
- · Every practical and decorative stitch can be saved in memory
- Any combinations of practical and decorative stitches as well as letters and numbers can be saved in the memory
- The memory contents remain saved even when the machine is disconnected from the electricity supply
 Memory contents can be recalled at any time
- Exceptions: buttonholes, securing stitch No. 5, eyelet

Programming practical and decorative stitches see instruction manual

Examples

- program a stitch combination of your choice in the memory (A) and
- · sew repeatedly



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(D)

- save a stitch combination
- activate mirror image
- save mirror image (B) and sew both repeatedly
- Program a stitch combination of your choice in the memory
- activate pattern end (C)
 - ^a machine stops automatically at the end of the combination
 - * program a partially mirror imaged stitch in the memory
- activate pattern end (D)
- ^a machine stops automatically at the end of the combination



В

Α





С



TIP

Decorative stitch combinations with embroidery thread · gives stitches a fuller appearance

Stitch combinations on double fabric

· bottom layer does not pucker

Stitch combinations on single fabric

- · always use stabilizer as a backing
- · remove after sewing

Memory

Letters and numbers in memory

(Block letters on the virtuosa 150 QE)

- The memory has a capacity for 30 stitches.
- All letters can be programmed in memory.
- + All letters and numbers as well as practical and decorative stitches can
- be combined at will and programmed in memory. The memory contents remain saved even when the machine is
- disconnected from the electricity supply.
- The memory contents can be recalled at any time.

Programming letter and numbers

see instruction manual

Δ

- Program name in block capitals (A) activate pattern end
- · sew the name

Examples

· machine stops when the name is complete

A

Program name in double capitals (B)

- activate pattern end
- · sew
- \cdot machine stops when the name is complete

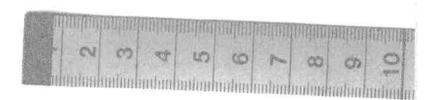
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Program initials and year in italics $\left< C \right>$

- · activate pattern end
- · sew
- \cdot machine stops when the sewing is finished
- trim connecting threads



A B C



B

TIP

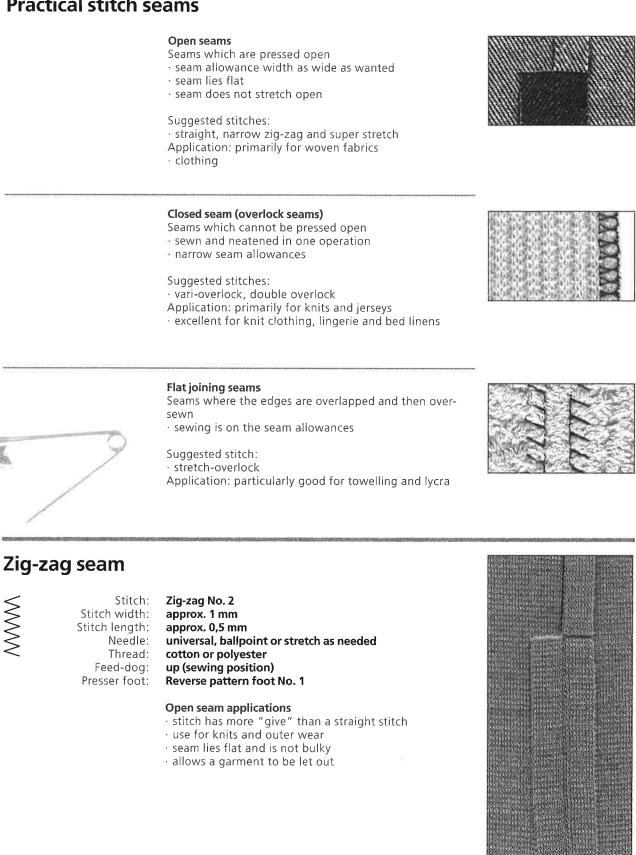
Activate pattern end after programming

- the programmed words will be repeated if the function is not activated
- Sewing letters on double fabric
- · bottom layer does not pucker

Sewing letters on single fabric

- · always use stabilizer as a backing
- · remove after sewing

10 **Practical stitch seams**



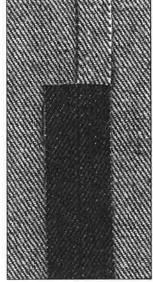
13

TIP

Seam in jersey or knits waves

· to prevent the stretching of the seam while being sewn, reduce the presser foot pressure to suit the fabric







TIP

Use a Jeans needle and the jeans foot No. 8 for densely woven fabrics

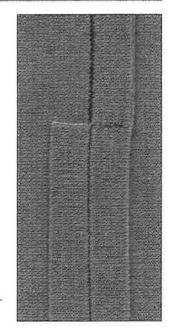
Super stretch seam

Stitch: Needle. Thread: Feed-dog: Presser foot:

Super stretch No. 13 virtuosa QE/No. 15 virtuosa plus universal, ballpoint or stretch as needed cotton or polyester up (sewing position) **Reverse pattern foot No. 1**

Open seam

- · flexible seam for very stretchy fabrics, particularly for sports and leisure wear
- · seam lies flat and is not bulky



R

Knits and jersey

TIP

· 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

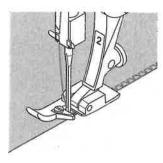
Seam in knits or jersey waves

· reduce presser foot pressure to suit the fabric

NNNNNN

¹² Vari-overlock seam

Stitch: Needle: Thread: Feed-dog: Presser foot:



size and type suitable for the fabric selected cotton or polyester up (sewing position)

Vari-overlock No. 3

Overlock foot No. 2 (optional) or Reverse pattern foot No. 1

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
 the stitch will form over the pin and over the edge of the fabric

B

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

Thread:

Feed-dog:

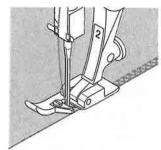
Presser foot:

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Stitch: **Double overlock No. 8** Needle: size and type suitable

size and type suitable for the fabric selected cotton or polyester

- up (sewing position)
- Overlock foot No. 2 (optional) or Reverse pattern foot No. 1



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
- the stitch will form over the pin and over the edge of the fabric



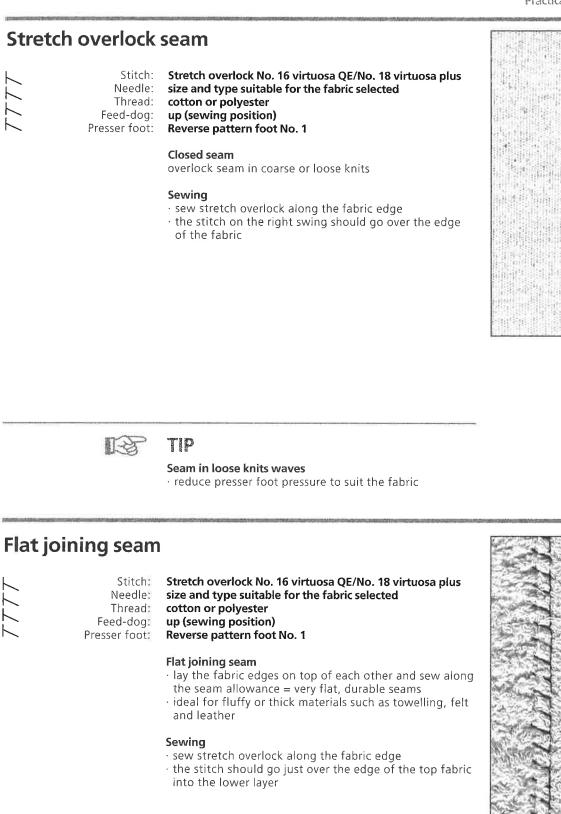
r tip

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







TP

Fabric and thread

· if you use a matching color thread, it is hardly visible in fluffy fabrics

Thick seam

 particularly suitable for fabrics in which a normal straight stitch seam would stretch open



¹⁴ Hems with practical stitches

Preparation

 \cdot 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: Needle: Thread: Feed-dog: Presser foot:

Jersey stitch No. 15 virtuosa QE/No. 17 virtuosa plus universal, ballpoint or stretch as needed cotton or polyester up (sewing position) 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

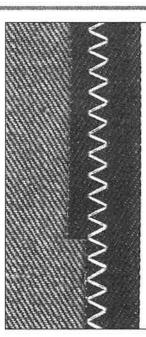
Visible hem with Triple zig-zag stitch

Stitch: Stitch width: Stitch length: Needle: Thread: Feed-dog: Presser foot:

Triple zig-zag No. 6 2,5--5 mm depending on fabric basic setting universal or jeans cotton or polyester up (sewing position) 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, densely woven 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

 heavy 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

Self-facing with Honeycomb stitch

Stitch: Needle: Thread: Feed-dog: Presser foot:

Honeycomb No. 14 virtuosa QE/No. 16 virtuosa plus universal, ballpoint or stretch as needed cotton or polyester up (sewing position) 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)

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XXX

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

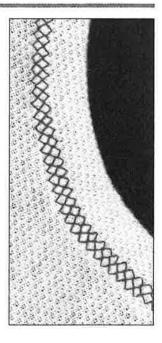
ING TIP

Needle stop down

needle stays in fabric when you stop to adjust the ribbing

Presser foot pressure

· reduce pressure if hem stretches



¹⁶ Ribbing with overlock seam

Stitch:

Needle:

Thread:

Feed-dog:

Presser foot:

B

TIP

ribbing

Needle stop down

· needle stays in fabric when you stop to adjust the

Vari-overlock No. 3 size and type suitable for the fabric selected cotton or polyester up (sewing position) Overlock foot No. 2 (optional) or Reverse pattern foot No. 1

Ribbing with overlock seam

for all fine cotton, synthetic and mixed fiber jersey

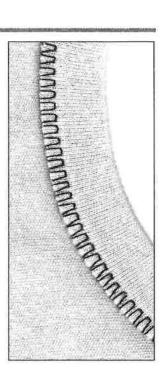
al side

Preparation

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

Sewing

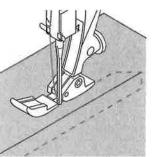
- · sew Vari-overlock over the raw edge
- \cdot guide the edge along the pin on the foot



Zippers

Zippers

Stitch: Needle: Thread: Feed-dog: Presser foot: Needle position:



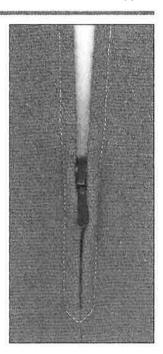
Straight stitch No. 1 size and type suitable for the fabric selected cotton or polyester up (sewing position) Zipper foot No. 4 far right or far left

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 far right and once with needle position far left
- the edge of the foot runs along the teeth of the zip
- · the needle inserts close to the teeth



BERNING A

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To sew around 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 woven

 \cdot use a 90–100 needle for even stitch formation

Blind hem

¹⁸ Blind hem



Stitch: Blind hem No. 7 Needle: size and type su Thread: cotton or polyes

Feed-dog:

Presser foot:

size and type suitable for the fabric selected cotton or polyester up (sewing position) Blind stitch foot No. 5

Blind hem

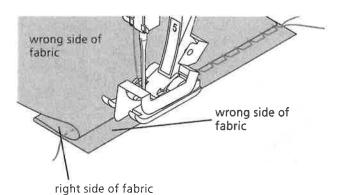
for invisible hems in medium to heavy cotton, wool and blended fabrics $% \left({{{\left({{{{\bf{n}}}} \right)}_{i}}}_{i}} \right)$

Preparation

- \cdot neaten raw edges
- \cdot 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



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TIP

Fine stitch width adjustment
· guide the folded edge evenly along the metal guide on
the foot = even depth

Elastic/cord

Sewing on narrow elastic with Universal stitch

Stitch: Stitch width: Needle: Thread: Feed-dog: Presser foot: Universal stitch No. 19 (160 only) depending on width of elastic size and type suitable for the fabric selected cotton or polyester up (sewing position) 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
- works well for gathered sleeve edges and neck openings

Preparation

cut elastic to length required

Sewing

TIP

- oversew the elastic, adjusting the stitch width to be slightly wider than the elastic
- needle must not pierce the elastic
- \cdot after sewing, adjust the gathers evenly



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: Needle: Thread: Feed-dog: Presser foot: Gathering stitch No. 20 (160 only) size and type suitable for the fabric selected cotton or polyester up (sewing position) 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
- \cdot hook over the center prong on the buttonhole foot
- \cdot take both ends under the foot to the back

Sewing

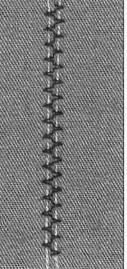
- sew a few stitches
- · lift elastic/cord at the front and pull towards you
- · leave ends behind the presser foot
- oversew cord
- · after sewing pull the cord to gather the fabric
- stretch elastic while sewing, the tighter it is stretched, the tighter the gathers



Securing beginning and end

sew a few stitches with the feed-dog lowered







²⁰ Sewing on wide elastic with Running stitch

Stitch: Stitch length: Needle: Thread: Feed-dog: Presser foot:

Running stitch No. 4 adjust to suit elastic size and type suitable for the fabric selected cotton or polyester up (sewing position) Reverse pattern foot No. 1

Wide elastic

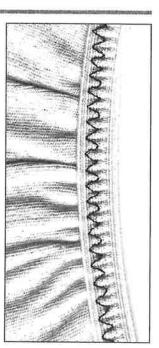
for finishing openings on sports wear and lingerie

Preparation

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

Sewing

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









B

Gather the fabric edge first

TIP

- · first sew two rows of straight stitching (stitch length
- 5 mm) 5–10 cm long
- · knot threads at seam begin
- · pull bobbin threads, gather fabric
- elastic band can be sewn over gathered fabric without stretching elastic
- man evenly gathered edge is completed

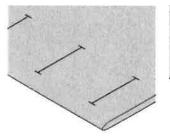
Elastic is stretched

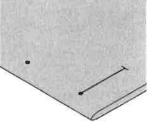
 \cdot reduce the presser foot pressure to suit fabric and elastic

Everything you need to know about buttonholes

Thread tension

- \cdot thread the bobbin thread through the finger of the bobbin case
- \cdot the bobbin tension is a little tighter
- \cdot this gives the beads on the right side of the fabric
- a slightly rounded appearance
- the buttonhole looks more attractive
- gimp reinforces buttonholes and enhances their appearance (pages 26, 27)



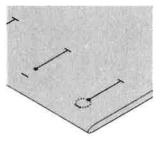


Mark the length of manual buttonholes

- mark the buttonhole length in the appropriate position
- stitched using Buttonhole foot No. 3

Mark the length of automatic buttonholes

- mark the length of just one buttonhole
- after sewing the first buttonhole, the length for all subsequent buttonholes is automatically programmed
- mark only the beginning of all subsequent buttonholes



Mark the length of keyhole buttonholes

- mark the bead length only
- the correct length eye will be added when the buttonhole is sewn

Test sewing

- always test sew on the fabric and stabilizer you intend to use
- · select the buttonhole type you intend to use
- sew the buttonhole in the same direction on the fabric (with or against the grain)
- · cut the buttonhole open
- push the button through and adjust the buttonhole length if necessary

Corrections

- To adjust the bead width:
- · alter the stitch width

Altering the stitch length:

- any alterations to the stitch length affect both beads (denser or less dense)
- \cdot always reprogram the buttonhole after any changes to the stitch length

Balance for stitch counter buttonholes (pictures A + B)

- any alterations to the balance affect both beads
- if you alter the bead density with balance, delete the programmed buttonhole with the clr/del button and reprogramme the buttonhole with the new balance setting

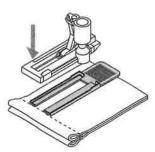
Balance for automatic/manual buttonholes

• any balance alterations to the 6-step manual and auto length buttonholes affects both beads identically because they are sewn in the same direction

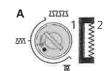
Note:

When all buttonholes have been sewn, return balance to the normal setting





If a buttonhole is to be sewn at right angles to a seam, we recommend the use of the buttonhole leveler. Insert the plate from behind between the fabric and the foot up to and over the thicker area.



1. Denser bead 2. Finer bead



²² Manual buttonhole (all types)

The number of steps depends on the type of buttonhole selected.

A manual buttonhole cannot be saved.

Stitch: Needle: Thread: Feed-dog: Presser foot: any buttonhole size and type suitable for the fabric selected cotton or polyester up (sewing position) Buttonhole foot No. 3

Preparation

- · select the desired buttonhole
- · screen shows:
- buttonhole number
- presser foot No. 3
- the buttonhole symbol (the first step blink on the screen) · insert the lower thread in the finger of the bobbin case

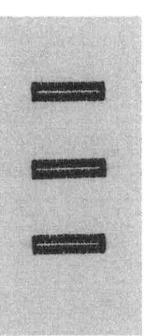
Always test sew buttonholes

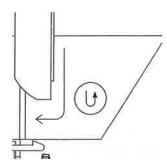
- test on the fabric and stabilizer you intend to use
 sew buttonholes in the same grain direction
- (with or against)

The individual steps blink on the screen

Sewing a standard buttonhole

- · 1. sew the first bead forward, stop the machine
 - · press the quick reverse button
- 2. sew reverse straight stitch, stop the machine at the first stitch (buttonhole begin)
 press the quick reverse button
- · 3. sew the bartack and the second bead, stop the machine
- press the quick reverse button
- \cdot 4. sew the bartack and the securing stitches







Buttonholes

Automatic buttonholes

(without stitch counter buttonhole)

Both beads are sewn in the same direction.

Stretch buttonholes (virtuosa plus) are particularly effective on all knit fabrics because the double overlock stitch used for the beads stretch with the fabric while keeping its shape.

Note: The automatic buttonhole foot 3A must lie perfectly flat on the fabric. If the foot lies on a seam, the length cannot be measured accurately.

Stitch: Needle: Thread: Feed-dog: Presser foot:

Buttonhole (all types) size and type suitable for the fabric selected cotton or polyester up (sewing position) Automatic buttonhole foot No. 3A

Automatic buttonhole

· the lens on automatic buttonhole foot 3A automatically registers the length of the buttonhole for exact duplication



Sew the first bead

sew the first bead forward, stopping at the desired length

Program the buttonhole

- press and release the quick reverse button
- auto appears on the screen to indicate that the
- buttonhole length is programmed
- continue sewing; the machine completes the buttonhole and stops automatically

Auto buttonhole

- machine stops in position to begin the next buttonhole reposition the fabric and sew; all subsequent
- buttonholes will be sewn automatically to the same length (without pressing the quick reverse button)



Exact duplicates

· the auto function ensures that each buttonhole will be exactly the same length as the previous one

Marking

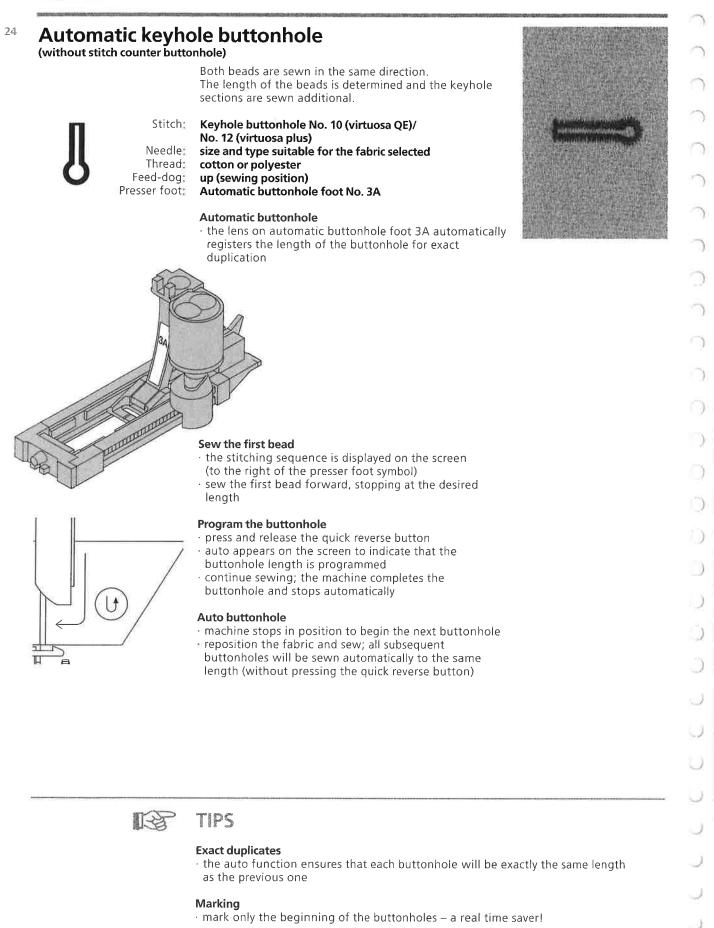
 mark only the beginning of the buttonholes - a real time saver!

Sewing speed

- sew at moderate speed for best results
- · sew all buttonholes at
- the same speed for a consistent bead density

1

П



Double sewn keyhole buttonholes

- \cdot keyhole buttonholes can be sewn twice on thick fabrics
- after sewing the first buttonhole, do not move the work
 simply tap the foot control once to begin sewing again

Stitch counter buttonholes for all buttonhole types

(can not be saved in long term memory)

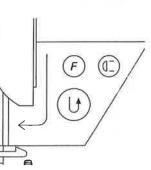
The first (left) bead is sewn forwards, the second (right) bead is sewn in reverse.

Stitch: Needle: Thread: Feed-dog: Presser foot:

Buttonholes (all types) size and type suitable for the fabric selected cotton or polyester up (sewing position) Buttonhole foot No. 3

Stitch counter buttonholes

00



select the desired buttonhole press the continuous reverse button (stitch counter buttonhole selector)

Length of first bead

- · sew the first bead, stopping at the desired length
- · press and release the quick reverse button

Bartack, second bead

- bottom bartack and second bead are sewn in reverse
 stop machine at the first stitch
- · press and release the quick reverse button

Bartack, securing stitches

- machine sews the top bartack and securing stitches
- machine stops automatically
- · auto appears on the screen
- \cdot the buttonhole is programmed and saved
- · each subsequent buttonhole will be sewn identically

Corrections

 reprogram the buttonhole if any alterations to the stitch width, length, or balance have been made

Programmed buttonhole on a different fabric

- different fabrics and interfacings can affect the look of a stitch counter buttonhole
- · if you are using a new material, program the
- uttonhole again
- · test sewing on the new fabric is recommended



More buttonholes with presser foot No. 3

· ideal for buttonholes which are difficult to sew with the larger foot of Automatic buttonhole foot 3A

Beautiful buttonholes

- · keep the speed consistent for beads of equal density
- · sew at a moderate speed for best results

Marking

TIPS

• mark only the beginning of the buttonholes – a real time saver!



Standard and stretch* buttonholes with gimp (*virtuosa 160 plus only) 26

Gimp

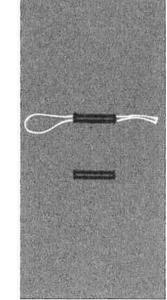
- · gimp cord reinforces buttonholes and enhances their appearance
- the loop of the cord should be at the end of the buttonhole most subject to wear
- cord loop = where button is sewn on · position the work accordingly
- · gimp cord is particularly recommended for standard and stretch buttonholes

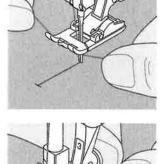
Ideal cords

- · Perle yarn No. 8
- · strong hand sewing thread
- · fine crochet yarn

Hooking the cord onto presser foot No. 3

- · insert the needle at the beginning of the buttonhole
- · raise the presser foot
- whook the cord over the centre pin on the front of the foot

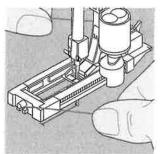




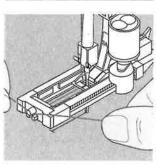
- place both ends of the cord in the grooves on the sole of the foot and pull them to the back
- lower the presser foot

Sewing

- · sew the buttonhole in the usual manner
- · do not hold the cord tightly
- · the buttonhole will form over the cord, covering it



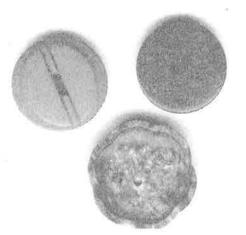
- Hooking the cord in the buttonhole foot with slide No. 3A
- · insert the needle at the beginning of the buttonhole
- raise the presser foot
- · guide the cord under the foot to the right
- · hook the cord over the pin at the back of the foot



- ^a bring the cords to the front of the foot
- pull them into the slit
- sew the buttonhole

Sewing

- sew the buttonhole in the usual manner · do not hold the cord tightly
- the buttonhole will form over the cord, covering it





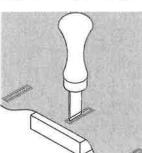
Securing the cord

- pull the cord through the buttonhole
- pull cords through to back of fabric
- knot or secure with stitches

ZA

Cutting buttonholes open

 \cdot using the seam ripper, cut from the ends towards the middle



Buttonhole cutter and block (special accessory)

- · place the fabric on the wood
- · place the cutter in the centre of the buttonhole
- · press down on the cutter with your hand or a hammer

Eyelet

Stitch: Needle: Thread: Feed-dog: Presser foot: Eyelet No. 13 size and type suitable for the fabric selected cotton or polyester up (sewing position) Reverse pattern foot No. 1

Sewn eyelet

- opening for cord and narrow ribbon
- \cdot for decorative work, children's clothing, crafts

Sewing eyelets

- · select eyelet
- · sew program
- · machine stops automatically
- · machine is ready to sew the next eyelet

Cutting eyelets open

use an eyelet punch

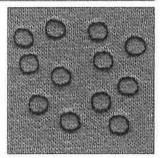


Eyelets

· ideal as eyes for soft toys, dolls or puppets

More marked appearance

 thread bobbin thread in finger on bobbin case = tighter bobbin tension



²⁸ Hand-look quilt stitch

 Stitch:

 Needle:

 Upper thread:

 Bobbin thread:

 Feed-dog:

 Presser foot:

Quilt stitch No. 21 (virtuosa QE) No. 26 (virtuosa plus) size and type suitable for the fabric selected monofilament 30/2 cotton thread up (sewing position) Reverse pattern foot No. 1 or walking foot No. 50 (optional)

Quilt/hand stitch

for all fabrics and all types of work which should have a hand-sewn look

Sewing test

 the bobbin thread must come through to the right side 1 stitch is visible, 1 stitch is invisible (monofilament) = hand stitched effect

Upper thread tension

depending on the fabric = increase the tension (6-9)

Balance

adjust if necessary

Sewing

· Quilt stitch can be sewn with any needle position



TIP

- Perfect corners
- · activate pattern end then turn work

Monofilament breaks

- sew more slowly
- reduce upper thread tension slightly

Patchwork foot

Stitch: Needle: Stitch length: Thread: Feed-dog: Presser foot: Straight stitch No. 1 size and type suitable for the fabric selected 1,5 mm–max. 2 mm cotton or polyester up (sewing position) Patchwork foot No. 37

Patchwork foot

Accuracy is essential when sewing patches together. The Patchwork foot is exactly ¼" wide, the centre indents on either side of the foot indicate the needle insertion point and the two additional indents are ¼" in front of and behind the needle. If you sew at a foot's width, the seam allowances will always be exactly ¼" wide and it is easy to turn the work while maintaining the same width.

A stitch length of 1,5–2 mm is ideal. It is not necessary to secure the stitches for these relatively short seam lengths. Attach the sewing table for precise and easier work.



29

Freehand quilting

Stitch: Needle: Thread: Feed-dog: Presser foot:

Straight stitch No. 1 size and type suitable for the fabric selected cotton or monofilament down (darning position) Darning foot No. 9 or Quilting foot No. 29 (optional)

Freehand quilting

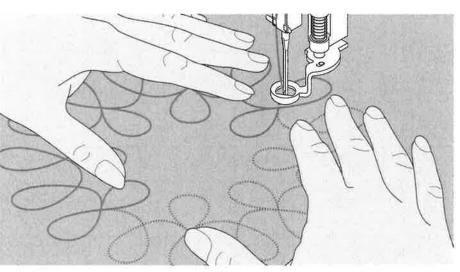
· for all freehand quilt work

Preparation

- · pin and baste top layer, batting, and lining together
- attach the slide-on sewing table or place machine in a cabinet

Holding the work

start in the center and work out toward the edges
 hold the fabric with both hands like an embroidery frame



Quilting a design

• turn the work using smooth, round movements to form the design of your choice (either freehand or following a template)

Stipple quilting

- · this technique covers the entire surface of the fabric
- \cdot the lines of stitching are rounded without any sharp
- corners; they never cross or touch one another



TIPS

Freehand quilting and darning

· both techniques are based on the same free-motion principles

Thread breaks

 \cdot usually as a result of sudden or jerky movements – move the fabric smoothly and at an even pace

Poor stitch formation

- · if the thread forms loops, the work is being moved too quickly
- · if knots are forming on the underside, the work is being moved too slowly

Monofilament hints

· if the monofilament thread breaks, sew more slowly and/or reduce the upper thread tension slightly

Edging knits with shirring elastic

MMM

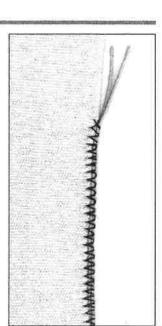
Stitch: Zig-zag No. 2 Stitch width: approx. 5 mm Stitch length: 1–1,5 mm Needle: size and type suitable for the fabric selected Thread: cotton or polyester Feed-dog: up (sewing position) Presser foot: Reverse pattern foot No. 1

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
- \cdot stretch the elastic lightly
- oversew with zig-zag
- \cdot do not sew through the elastic, only over it
- · adjust elastic after sewing is complete to regain the correct shape and size



)

)





Stretch fabrics stretch while sewing reduce the presser foot pressure to suit the fabric

Patches



Stitch

Needle: Thread: Feed-dog: Presser foot:

Patches on woven fabrics

Running stitch No. 4 Honeycomb No. 14 (virtuosa QE)/No. 16 (virtuosa plus) size and type suitable for the fabric selected cotton or polyester up (sewing position) **Reverse pattern foot No. 1**

Reinforcing edges

· good for work clothes, table linen, towels, etc. • use a cord to match the color of the fabric

Suitable cords

- · perle yarn
- · fine crochet yarn
- strong hand-sewing thread
- · gimp

Sewing

- · oversew edges with Honeycomb or Running stitch
- · oversew a cord along the edge for added reinforcement
- \cdot if necessary, sew a second row somewhat in from the edge

Patches on knits and jersey

Stitch: Needle: Thread: Feed-dog: Presser foot:

Jersey stitch No. 15 (virtuosa QE)/No. 17 (virtuosa plus) size and type suitable for the fabric selected cotton or polyester up (sewing position) **Reverse pattern foot No. 1**

Disguises worn or damaged areas

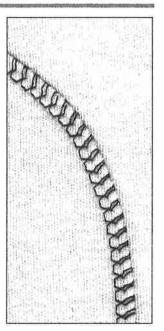
particularly for stretchy fabrics, especially underwear

Preparation

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

Sewing

- · place patch over worn area
- 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

 \cdot 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

³² Darning and mending tears with Running stitch

 \leq

Stitch: Needle: Thread: Feed-dog: Presser foot:

Running stitch No. 4 size and type suitable for the fabric selected cotton or polyester up (sewing position) Reverse pattern foot No. 1

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
- \cdot worn areas: sew as many rows as necessary next to one another
- \cdot overlap each row slightly over the previous one

Method

flat areas

- sew forward
- · insert needle
- turn work
- · sew forward again



tubular areas (trousers, sleeves)

- sew first row forward
- · select continuous reverse sewing function
- \cdot sew second row in reverse
- a delete function
- · sew next row forward again
- · repeat as necessary







TIP

Backing for tears v instead of fine fabric, use a piece of gauze or soft interlining

Darning program

Stitch:

<u>† 11</u>

Needle: Thread: Feed-dog: Presser foot: Darning Program No. 12 (virtuosa QE)/ No. 14 (virtuosa plus) size and type suitable for the fabric selected darning thread up (sewing position) Reverse Pattern foot No. 1 Buttonhole foot No. 3A (available as a special accessory for virtuosa 150 QE)

Quick darning of holes or worn areas

· replaces threads with the grain in all fabrics

Darning with Reverse Pattern foot No. 1

- select continuous reverse/stitch counter buttonhole selector
- · insert the needle in the top left of the worn area
- sew the first vertical row
- \cdot press the quick reverse button at desired length
- · continue sewing, machine stops automatically

Large areas:

The darning area can be extended by moving the work under the foot.

Clear the programme by pressing the clr/del button.

Darning with the Buttonhole foot with slide No. 3A

- insert the needle in the top left of the worn area
- \cdot sew the first vertical row
- press the securing button
- (length is programmed)
- complete the darning programme, the machine stops automatically
- \cdot the machine changes direction automatically for a darn of about 3 cm (1 1/2") in length
- the machine completes the darning programme automatically

Large areas:

The darning area can be extended by moving the work under the foot.

Clear the programme by pressing the clr/del button.

Corrections

· if the darning becomes distorted, correct with Balance



TIP

Reinforcement • use fine fabric or interlining as a backing

Preparation

- stretch fabric into darning ring*
- · prevents puckering
- *The darning ring is available as special accessory



³⁴ Darning manual

Stitch: Needle: Thread: Feed-dog: Presser foot:

Straight stitch No. 1 size and type suitable for the fabric selected darning thread down (darning position) 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

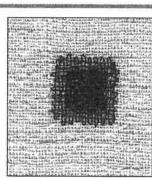
- \cdot move darning ring smoothly
- \cdot work from left to right
- move without using pressure

Method

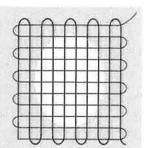
- · sew first row
- turn work by 90°
- · sew over the first row not too close for a soft finish
- \cdot turn work by 90° again
- \cdot complete darning loosely and in same direction as first row
- in tubular items first step in a horizontal direction second and third steps in lengthways direction
- when you have mastered the technique work the rows in irregular lengths so that the ends are lost in the fabric

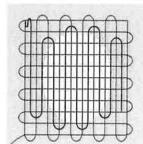
Important

- · change direction in curves (no points)
- = prevents holes
- = prevents thread breakage
- · move as if writing L or M
- \cdot do not sew in circles = these do not mimic fabric construction
- * The darning ring is available as special accessory. ** virtuosa 150 QE optional











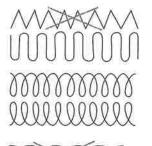
TIP

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

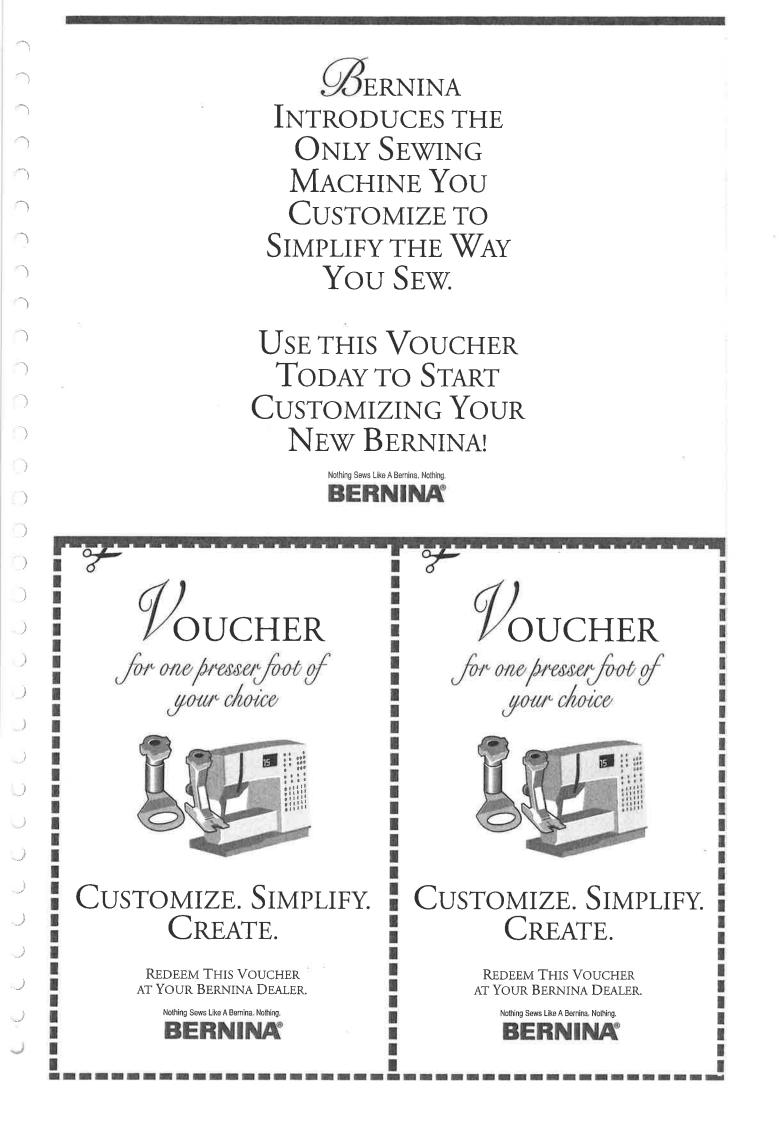


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