

BERNINA 325 | 335





Dear Bernina Customer,

Congratulations!

You've decided on BERNINA, a reliable choice that will delight you for years to come. For over 100 years, our family has placed the highest value on satisfied customers. For myself, it is a matter of personal pride to offer you Swiss precision at the height of perfection, future-oriented sewing technology, and a comprehensive customer service.

The BERNINA 325 and 335 are primarily aimed at the occasional sewer who puts great stock in design and customer benefit. These sewing computers are very ergonomically built and therefore even easier to operate, to help you, our esteemed customers, on your journey to even greater sewing pleasure and perfect results.

Enjoy creative sewing with BERNINA:

Find out about our varied range of accessory and let yourself be inspired by new sewing projects at www.bernina.com.

And don't forget to make use of service and maintenance offers from our highly trained BERNINA dealers.

H.P. Ueltschi Owner

BERNINA International AG

CH-8266 Steckborn www.bernina.com

SAFETY INSTRUCTIONS

IMPORTANT INFORMATION

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

Read all instructions before using this sewing computer.

When the sewing computer 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 electrical shock:

- 1. The sewing computer should never be left unattended when plugged in.
- 2. Always unplug the sewing computer from the electrical outlet immediately after using and before cleaning.
- **3.** LED radiation. Do not view directly with optical instruments. LED class 1M

riangle WARNING!

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

- Use the sewing computer only for purposes as described in this manual. Use only attachments/accessory recommended by the manufacturer as contained in this manual.
- 2. Do not allow the sewing computer to be used as a toy. Close attention is necessary when this sewing computer is used by or near children and infirm persons. This sewing computer is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the sewing computer by a person responsible for their safety. Children must be kept under supervision to ensure that they do not play with the sewing computer.

- 3. Never operate this sewing computer if:
 - it has a damaged cord or plug
 - it is not working properly
 - it has been dropped or damaged
 - it has fallen into water.

Take the sewing computer to the nearest authorized BERNINA dealer for examination, repair, electrical or mechanical adjustment.

- **4.** Never operate the sewing computer with any air vents blocked. Keep ventilation openings of the sewing computer free from lint, dust and/or fabric bits.
- **5.** Keep fingers away from all moving parts. Special care is required in the needle area of the sewing computer.
- **6.** Never drop or insert any objects into any opening on the sewing computer.
- **7.** Do not use the sewing computer outdoors.
- **8.** Do not operate the sewing computer where aerosol products (spray) or oxygen is being administered.
- **9.** Do not pull or push the fabric while stitching. This may deflect the needle, causing it to break.
- 10. Do not use bent needles.
- **11.** Always use the BERNINA original stitch plate. The wrong stitch plate can cause needle breakage.
- **12.** To disconnect, turn power switch to «0» (off), then remove the plug from the outlet. Do not unplug by pulling the cord, instead grasp the plug to pull it from the outlet.
- **13.** Turn power switch to «0» (off) when making any adjustments in the needle area, such as changing the needle or the presser foot, etc.
- **14.** Always unplug the sewing computer from the electrical outlet when carrying out cleaning or maintenance work or any other user servicing adjustments mentioned in this manual.
- 15. This sewing computer is provided with double insulation (except USA and Canada). Use only genuine replacement parts. Please note the advice on the servicing of double-insulated products.

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 grounded 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 the original parts in the product.

A double insulated product is marked with the words: "Double-Insulation" or "double-insulated".

The symbol may also be marked on the product.

DISCLAIMER

No liability will be assumed for any possible damage which arises from misuse of this sewing computer.

This sewing computer is intended for household use only.

SAVETY INFORMATON KEEP THESE INSTRUCTIONS!



Find the most current version of your manual at www.bernina.com

Environmental Protection



BERNINA is committed to the protection of the environment. We strive to minimize the environmental impact of our products by continuously improving product design and our technology of manufacturing.

At end of life please dispose this product in an environmentally responsible way according to the national directive. Do **not** throw away this product with your household waste. In case of doubt, please contact your dealer.



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



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Key to the symbols



DANGER!

Very important! Risk of injury!

WARNING!

Very important! Risk of damage!



Supplementary information!

Glossary

Balance Correcting abnormalities in stitch formation due to the fabric

clr Deleting settings or data
LED Sewing light system

FHS Free-Hand System = Knee-operated presser-foot lifter

memMemory = Longterm data storeBartackButtonhole-bead cross-connections

Satin stitching Dense zig-zag

Fabric fold Folded edge of material

Hook "Catches" the needle-thread loop, forming the seam together with the lower thread

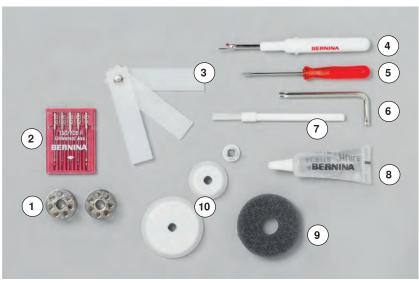


Scope of delivery

Standard accessory



- Dust cover (B 335 only) Accessory box
- Foot control 3
- 4 Power cable
- 5 Slide-on table
- 6 Stitch pattern summary card



- 3 bobbins (one of them in the bobbin case)
- 2 Selection of needles
- 3 Height compensating tool
- 4 Seam ripper5 Screwdriver, red
- 6 Hex key
- Lint brush
- Lubricator
- 9 1 Foam pad
- 10 3 spool discs

Presser feet – Snap-on













- Reverse pattern sole No. 1
- **2** No. 2 Overlock sole
- No. 3A Buttonhole foot with slide (B 335 only)
 Buttonhole sole (B 325 olnly)
 Zipper sole
- No. 3
- 5 No. 4
- 6 Blindstitch sole No. 5
- No. 20 Open embroidery sole (B 335 only)



Find more accessories on www.bernina.com

Accessory box



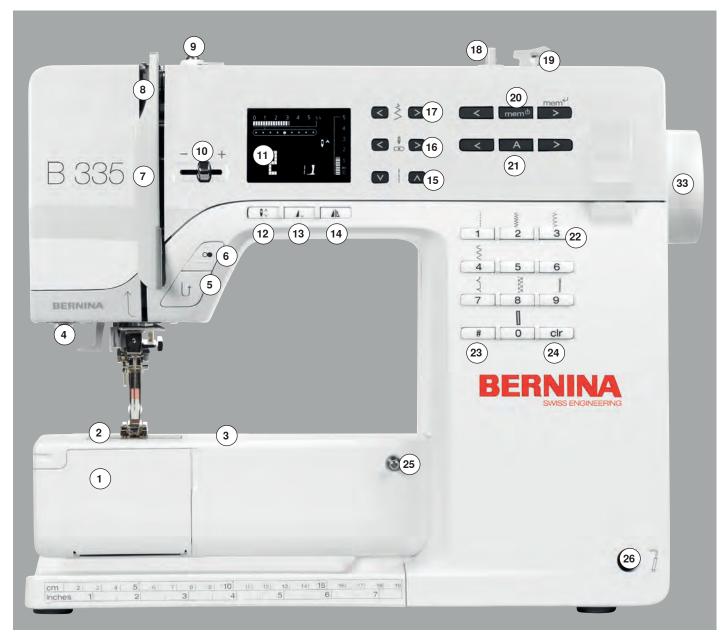
Storing Accessory

Standard accessory is supplied in a plastic bag. It can be stored in the accessory box.



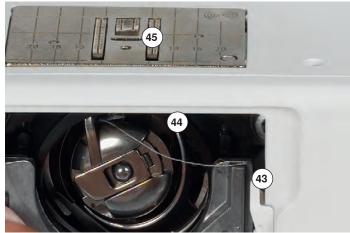
Sewing computer overview

Front View



Detail View

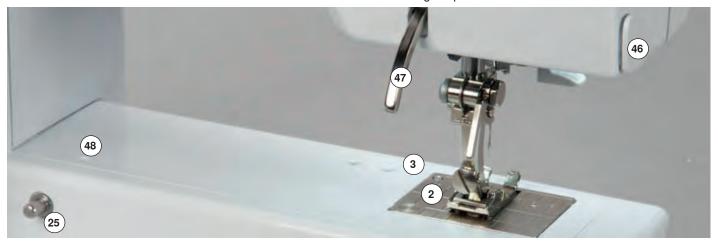




Side view



- 1 Bobbin cover
- 2 Stitch plate
- 3 Attachment base for special accessory
- 4 LED sewing light
- 5 Quick reverse button
- 6 Start/Stop button
- 7 Thread take-up cover
- 8 Thread take-up lever
- 9 Bobbin winder pre-tension stud
- 10 Speed control
- 11 Screen
- 12 Needle stop up/down button
- **13** Pattern end button
- 14 Mirror image button (B 335 only)
- 15 Stitch length buttons
- 16 Needle position buttons
- 17 Stitch width buttons
- 18 Spooling device with bobbin winder axis
- 19 Thread cutter on bobbin winder
- 20 Memory buttons
- 21 Alphabet buttons
- 22 Stitch selection buttons
- 23 #-button (hash button)
- 24 «clr» (clear) button
- 25 Slide-on table socket
- 26 FHS (Free Hand System) connection (B 335 only)
- 27 Thread tension adjustment wheel
- 28 Rear thread guide
- 29 Carrying handle
- 30 Vertical spool pin
- 31 Horizontal spool pin
- 32 Eyelet
- 33 Handwheel
- 34 Balance adjuster
- 35 Foot control socket
- 36 Feed-dog drop
- **37** Power switch on/off
- 38 Power plug socket
- 39 Needle threader
- 40 Thread guide
- 41 Needle clamp
- 42 Presser foot
- 43 Thread cutter in hook opening
- 44 Hook
- 45 Feed dog
- 46 Thread cutter on head frame (left)
- 47 Presser foot lifter
- 48 Darning hoop connection



Sewing preparations

Foot control



Sewing speed control

control the sewing speed by pressing the foot control



Self storing cord

- wind the cable around the spool
- insert the plug into the groove provided

While sewing

unwind the cable

LED sewing light



The LED sewing light illuminates the sewing area and has a long product life.



DANGER!

Please note that a defective sewing light must ONLY be replaced by an authorized technician.

The sewing computer must be taken to an authorized BERNINA dealer!

Slide-on table



The slide-on table increases the sewing surface.

Attaching the slide-on table

- raise needle and presser foot
- slide over free-arm to the right until it engages

Removing the slide-on table

- raise needle and presser foot
- press button down and pull off slide-on table to the left

FHS (Free Hand System) (optional accessory for B 335 only)



The FHS raises and lowers the presser foot.

Attaching the lifter

 insert into the opening; you should be able to operate the FHS with your knee in your normal sitting position

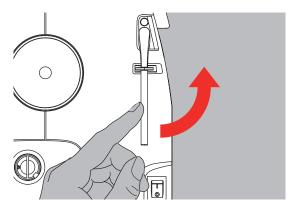
Raising and lowering the presser foot

- with your knee push lever to the right
- the presser foot is raised; the feed dog is lowered simultaneously. The thread tension is released
- the feed dog is raised as soon as the first stitch is sewn

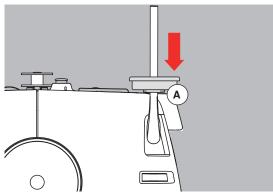


Your dealer can adjust the FHS if necessary.

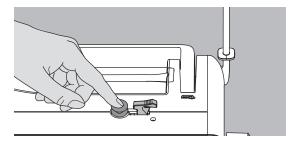
Vertical Spool Pin

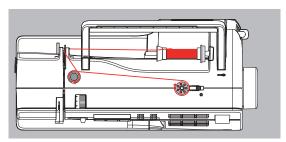


- the vertical spool pin is on the side behind the handwheel
- it is an essential aid for sewing with more than one thread, i.e. double needle work
- raise the pin until it clicks into its vertical position
- when using large reels, add the foam pad A for stability

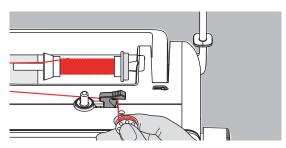


Winding a Bobbin



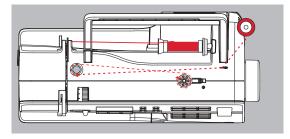


- turn power switch on (to «I»)
- place empty bobbin on spindle
- place thread on spool pin
- attach appropriate spool disc; diameter of thread spool determines disc size
- following the direction of the arrow take thread through the rear guide and round the pre-tension stud
- wind the thread two to three times around the empty bobbin and cut off any excess thread on the thread cutter
- push engaging lever against bobbin, the winder works automatically
- the motor will stop automatically when the bobbin is full



Thread cutter

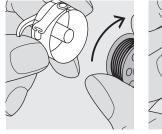
pull thread over thread cutter when removing the bobbin



Bobbin winding while sewing

- place thread spool on vertical spool pin then, following the direction of the arrow, take thread through the thread guide and around the pre-tension stud
- then proceed as mentioned above

Inserting a Bobbin



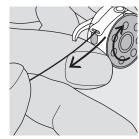


Insert the bobbin so that the thread runs clockwise.

Laying the thread into the slot

Pull the thread counter clockwise into the slot.

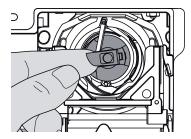


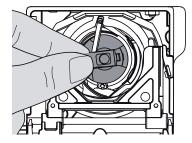


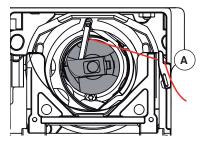
Pulling the thread under the spring

Pull the thread to the left under the spring until it lies in the T-shaped slit at the end of the spring. The bobbin must turn clockwise.

Bobbin Case







To remove the bobbin case

- raise needle
- power switch to «0» (off)
- open the bobbin cover
- grasp the latch of the bobbin case
- remove bobbin case

To insert the bobbin case

- hold the bobbin case latch
- the finger on the case should point upwards
- insert the case so that it clicks into place

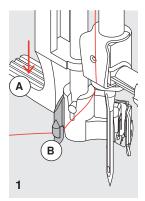


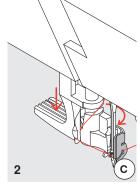
The bobbin thread does not have to be brought up as the loose end is just the right length to start sewing.

Bobbin thread cutter

- insert the bobbin case
- take the thread over cutter A and cut it
- close the bobbin cover

Needle threader



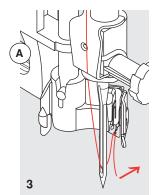


1 Press lever down

- raise needle
- lower the presser foot
- hold thread to the left and back
- press lever A down and simultaneously guide the thread around hook B to the right to the needle

2 Guide thread to front of the needle

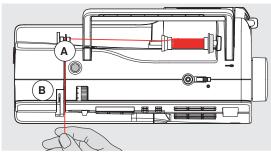
 put the thread from the front into the guide C until it catches in the wire hook

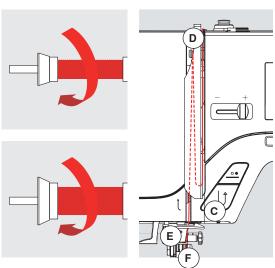


3 Release lever and thread

- release lever A and thread
- put the thread under the foot and pull the thread backwards or
- put the thread under the foot and pull it from front to back over the thread cutter on left side of the head frame

Threading the Upper Thread

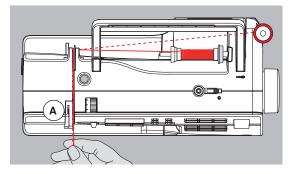


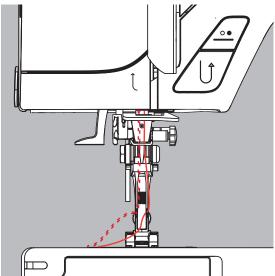


Attaching the thread spool

- raise the needle and presser foot
- power switch to «0» (off)
- place foam pad on pin base
- Place the sewing thread on the thread roll holder so that the thread is unwound clockwise.
- attach appropriate spool disc diameter of spool determines disc size, there
 must be no clearance between the disc and the spool
- take thread through rear guide A
- then into slit of upper thread tension B
- pull thread down to the right of the take-up cover and around C
- take thread up to the left of the cover and around D, placing it in the take-up lever
- take thread down and through guides E and F

Threading the Double Needle





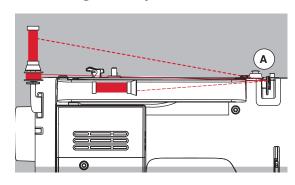
Threading the First Thread

- place thread spool on horizontal spool pin and thread
- guide the thread to the front in the slit and past the tension disc A on the right side
- thread sewing computer as usual and thread the right needle

Threading the Second Thread

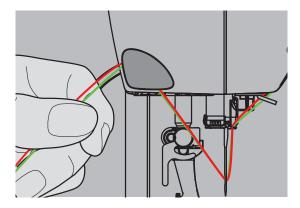
- place thread spool on the vertical spool pin and thread
- guide the thread to the front in the slit and past the tension disc **A** on the left side
- thread the left needle
- threads must not be twisted together

Threading the Triple Needle



- two thread spools and one full bobbin are needed
- place one thread spool on horizontal spool pin
- place second thread spool and the bobbin, separated by a spool disc, on vertical spool pin (both spools have to turn in the same direction)
- thread as usual by guiding two threads on the left side of the tension disc A
 and one thread on the right side of the disc

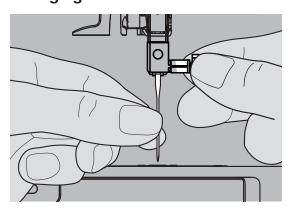
Thread cutter



On the left of the head frame

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

Changing the Needle



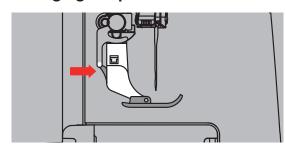
Removing the needle

- raise needle
- power switch to «0» (off)
- lower the presser foot
- loosen the needle clamp screw
- pull the needle down to remove

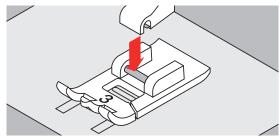
Inserting the needle

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

Changing the presser-foot sole

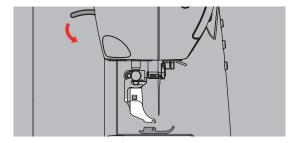


- raise the needle and the presser foot shaft
- power switch to «0» (off)
- press the button on the shaft to release the sole



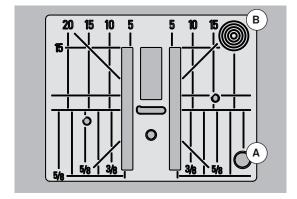
Attaching the presser-foot sole

 place the presser-foot sole under the shaft so that the peg sits under the opening of the shaft



lower the presser-foot lifter and the foot sole will click into position

Stitch plate



Stitch Plate Markings

- the stitch plate is marked with vertical, horizontal and diagonal lines in mm and inches
- the lines help to guide the fabric for sewing seams and precise topstitching,
 etc.
- the horizontal markings are helpful for sewing corners and buttonholes, etc.
- the diagonal markings are useful for quilting
- the vertical measurements correspond to the distance between the needle and the line
- needle insertion point is position «0» (center needle position)
- the measurements are marked to the right and left, measuring from the center needle position

Removing the Stitch Plate

- raise the presser foot and needle
- power switch to «0» (off)
- press the stitch plate down at the right back corner B until it flips up
- remove the stitch plate

Replacing the Stitch Plate

 place the stitch plate over the opening A and press down until it clicks into place

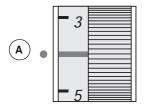
Thread tension

Optimal upper thread tension is set in the factory. For this, Metrosene threads 100/2 weight (Mettler, Switzerland) are used in the bobbin and also in the upper thread.

The tension may vary when using other types of thread such as embroidery thread, and it may therefore be necessary to adjust the tension to suit the fabric and stitch type.

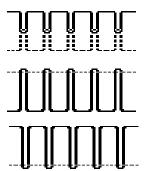
For example:

	rension	needie
Metallic thread	approx. 3	90
Monofilament	approx. 2-4	80



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



Perfect Stitch Formation

• the interlooping of the threads is in the fabric

Upper thread tension too tight

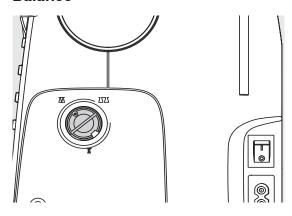
- the lower thread is pulled more up, i.e. to the right side of the fabric
- to reduce the upper thread tension turn tension adjustment wheel to 3-1

Upper thread tension too loose

- the upper thread is pulled more down, i.e. to the wrong side of the fabric
- to increase the upper thread tension turn tension adjustment wheel to 5-10

Sewing preparations

Balance



Different fabrics, threads and stabilizers can naturally affect the stitch balance so that the stitch patterns are sewn too close together or not close enough.

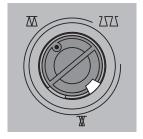
This can be remedied with Balance to suit the fabric and produce perfect results.



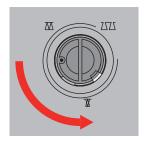
Test-sewing

When using decorative stitches, we recommend to test-sew the stitch pattern on a piece of the project fabric.

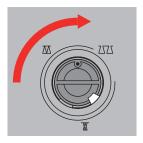
If the balance has been adjusted, return it to the normal setting once sewing is completed!



Normal position



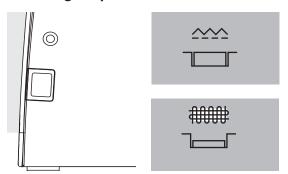
Denser stitch formation - pulling the stitch pattern closer together (shorter stitch length)



Finer stitch formation - extending the stitch pattern (longer stitch length)

Feed dog

Feed-dog drop



Button flush with housing = sewing position. Button depressed = feed-dog is lowered.

• for free-motion sewing (darning, embroidery, quilting, etc.)

Feed-dog and fabric feed

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 very short. The fabric moves under the foot quite slowly, even at full sewing speed. e.g. buttonholes, satin stitch and decorative stitches are all sewn with a very short stitch length.



Let the fabric feed evenly.





Pulling, pushing or holding back the fabric will result in uneven stitches.

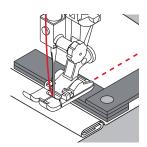
Height Compensation of Uneven Layers

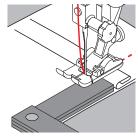




The feed dog works accurately when the foot is level.

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. The fabric might jam.

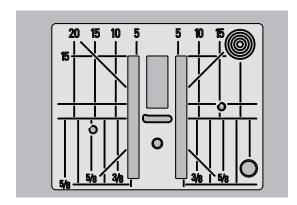




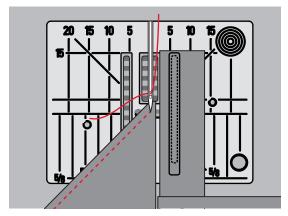
To solve this problem, place one, two or three compensating plates as required behind the needle under the presser foot to level it.

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.

Sewing Corners



When sewing corners only a small section of the fabric is actually on the feed dog. Therefore 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.

Important Facts about Sewing Needles

Thread

The thread is chosen according to use. For a perfect sewing result, thread and fabric quality play an important role. It is recommended to use quality brands.

Cotton thread

- cotton thread has the advantage of being a natural fiber and therefore is especially suitable for sewing cotton fabrics
- if cotton thread is mercerized, it has a slight sheen

Polyester thread

- it has a high tensile strength and is particularly colorfast
- polyester thread is more flexible and is recommended where a strong and elastic seam is required

Needle, Thread and Fabric

Care must be taken when choosing needle and thread.

The correct needle size depends on the selected thread and fabric. The fabric weight and type determine the thread weight, needle size and point form.

WARNING!

Checking the needle condition

The needle condition should be checked and the needle replaced regularly. A defective needle not only damages the fabric but also the sewing computer.

Follow these guidelines:

Always replace the needle when starting a new sewing project.

Needles, Threads



Correct needle/thread combination

When sewing, the thread should travel smoothly down the long groove on the front of the needle.



Too thin thread or too thick needle

The thread has too much clearance in the groove. Skipped stitches and damage to the thread can occur.



Too thick thread or too fine needle

The thread rubs on the edges of the groove and can get jammed. This can break the thread.



Fabric/Thread	Needle size

Fine fabrics:

Fine thread (darning thread, embroidery thread) 70-75

Medium weight fabrics:

Normal thread 80-90

Heavy weight fabrics: 100, 110, 120

Overview Needles

Overview needles			
	Universal 130/705 H/60–100		Metafil 130/705 H-MET/75-90
	Normal point, slightly rounded		Large eye
	For nearly all natural and synthetic fabrics (woven and knitted)	<u> </u>	Sewing with metallic threads
	Jersey/Stretch 130/705 H-S, H-SES, H-SUK/70-90	 	Cordonnet (Topstitching) 130/705 H-N/80-100
	Ball point		Small ball point, long eye
	Jersey, knits, stretch fabrics		Topstitching with thick thread
	Leather 130/705 H-LL, H-LR/90-100		Wing needle (hemstitch needle) 130/705 HO/100-120
	With cutting point		-Wide needle (wing)
	Natural and synthetic leather and plastic films	 	Hemstitching
	Jeans 130/705 H-J/80-110		Double wing needle 130/705 H-ZWI-HO/100
	Very fine sharp point		>
	Heavy weight fabrics such as jeans, canvas, overalls	 	Special effects with hemstitch embroidery
	Microtex 130/705 H-M/60-90		Double needle 130/705 H-ZWI/70-100
	Especially fine sharp point		Needle distance: 1.0/1.6/2.0/2.5/3.0/4.0
	Micro fiber fabrics and silk		Visible hems in stretch fabrics, pintucks, decorative sewing
	Quilting 130/705 H-Q/75-90		Triple needle 130/705 H-DRI/80
	Fine sharp point		Needle distance: 3.0
	Straight and topstitching		For decorative sewing
	Embroidery 130/705 H-SUK/75–90		
	Large eye slight ball point		
	Embroidery on all natural and synthetic fabrics		

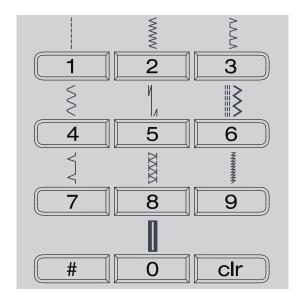


Functions

Function Buttons on the Sewing Computer

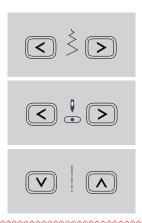


Stitch Selection



- for stitch patterns 1-10: press the number button of your choice; stitch number and default width and length settings appear
 - press «0» to select stitch number 10 (standard buttonhole)
- for stitch patterns 1-99 (B 335) / 1-40 (B 325): press #-button and enter desired stitch number
- for stitch patterns 100 and beyond (B 335): press #-button twice and enter desired stitch number

Customizing Stitch Settings



Altering stitch width

- left button = narrow the stitch width
- right button = widen the stitch width
- the basic settings of the chosen stitch blink constantly

Altering needle position

- left button = needle to the left
- right button = needle to the right

Altering stitch length

- left button = shortens the length
- right button = elongates the length





Quick reverse temporary:

- press the button
- the sewing computer sews stitch pattern in reverse until button is released (max. stitch length 3mm)

Application:

- programs buttonholes
- programs darning length
- for switching when in the straight stitch securing program
- manual securing (seam begin and end)

continous reverse:

- press button quickly twice
- the sewing computer sews the chosen stitch in reverse
- press button once to cancel



Start/Stop button



DANGER!

Risk of injury from unintentional starting of the machine.

If the start-stop button is pressed, the machine starts even when the foot controller is connected.

 starts and stops the sewing computer when operating it without foot control - the connected foot control is idle



Speed control

 to infinitely adjust the speed control when operating the sewing computer via start/stop button





Basic setting is needle stop up (arrow points up)

- press the button
- arrow points down = sewing computer stops with needle down (needle in the fabric)
- press button again
- arrow points up = sewing computer stops with needle up



Press button a bit longer = the needle will go automatically up or down.



Pattern end

- press the button
- sewing computer stops at the end of a single stitch pattern or stitch combination (in Memory)



Mirror image button (B 335 only)

- press the button
- selected stitch pattern will be sewn in mirror image



#-button

Button for selecting stitch patterns (see p. 23)



«clr» (clear) button

- press button = reverts to basic settings
- other selected functions are cleared Exception:
- needle stop up/down
- press «clr» button twice to clear altered basic settings of the auto-length buttonhole



Letters, numbers and characters (B 325 block alphabet only)

- press Alphabet button
- one of the fonts will appear on the screen
- select desired font by pressing the alphabet button
- press the right button to scroll letters and numbers forwards (A B C ...)
- press the left button to scroll letters and numbers backwards (@ C ? ...)

Alphabet contents

ABCDEFGHIJKLMNOPQRSTUVWXYZ ÄÖÜÅÆŒØÑÈÉÊÀÂ 1234567890_-.'&?Ç@

Memory



mem^ტ(

mem←

2

- press the button 2
- «mem» will appear on the display
- the number of available memory spaces (capacity of 30) and the cursor blink
- use the left 1 and right arrow buttons 3 to scroll patterns, letters and numbers
- use the right arrow button 3 to save

Temporary altered stitch Memory

any stitch length or width alterations will be saved automatically

For example:

- sew an altered stitch, e.g. zig-zag
- select and sew another stitch, e.g. straight
- return to zig-zag, your alterations are still active

Return to basic settings

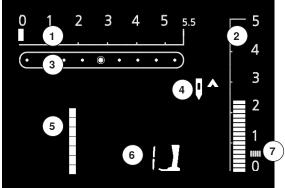
- individual stitch patterns can be reverted to basic settings manually
- all altered settings are lost when the «clr»button is pressed or when the sewing computer is turned off

Application:

- for all stitch patterns
- particularly useful for switching between different applications

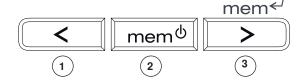


Details of the Screen



- 1 Stitch width (basic setting always visible blinks)
- 2 Stitch length (basic setting always visible blinks)
- 3 Needle position (9 possibilities)
- 4 Needle stop up/down
- 5 Number of stitch pattern
- Number of presser foot (for selected stitch pattern)
- 7 Satin stitch: dense, short zig-zag stitch

Memory



Stitch patterns, letters, and numbers can be combined and stored in memory (capacity of $30\ \text{spaces}$).

It's a long-term memory. The contents remain saved until deleted by the user. Power cuts or switching off («0») the sewing computer for a longer time will not affect the saved program. The stitch lengths or widths and the needle position can be changed at any time.

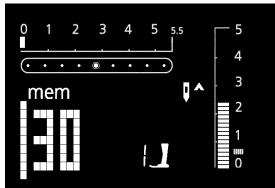
Individual stitch patterns, letters or numbers can be deleted or overwritten.

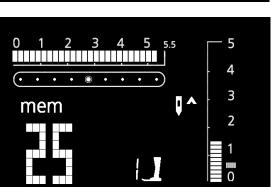
Memory buttons

- use the left button 1 to scroll the memory contents backwards
- use the center button 2 to open and close the memory
- use the right button **3** for programming the memory and scrolling the memory contents forwards



Programming Practical and Decorative Stitches





Opening the memory

- press the button 2
- the cursor and the available number of empty memory spaces (e.g. 30) start to blink, and «mem» appears
- select desired stitch pattern
- the number of the stitch pattern appears on the display
- press the button 3
- the stitch is programmed
- the number of available memory spaces appears
- select the next stitch pattern and program as described, etc.

Starting to sew

- press the foot control = the sewing computer starts automatically at the beginning of a stitch pattern combination
- select Pattern End as well = the sewing computer stops automatically at the end of a stitch pattern combination



The following special programs cannot be saved in memory:

.7.7	

No. 5 Securing program

No. 10 Buttonhole

No. 11 Button sewing-on program

No. 16 Darning program

335:

No. 5 Securing program

No. 10-13 Buttonholes

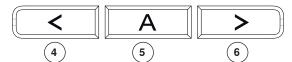
No. 14 Button sewing-on program

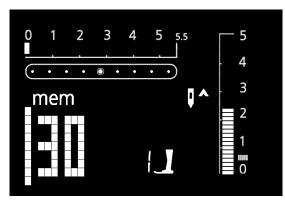
No. 15 Eyelet

No. 22 Darning program No. 23 Basting stitch



Programming Alphabets and Numbers





0 1 2 3 4 5 5.5 mem A 1 1 0 0

Opening the memory

- press the button 2
- the cursor and the available number of empty memory spaces (e.g. 30) start to blink, and «mem» appears
- press the Alphabet button 5 to select the alphabet of your choice
- the letter A in the alphabet of your choice appears on the display
- use the arrow buttons 4 and 6 to scroll the alphabet
- select letter/number
- press the button 3 = letter/number is programmed
- the number of available memory spaces appears
- proceed as described to select and program more letters and/or numbers
- when programming more than one word, select the underscore symbol (_) to program a space between the words



If the stitch length and/or width of letters or numbers have been altered, the alterations will affect all of them.

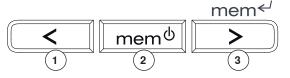
If you only want to alter single letters or numbers, this must be done individually.



Corrections in Memory

The contents of the Memory remain saved even when the sewing computer is disconnected from the electrical supply. They can be recalled at any time.

The contents of the memory will be lost if the sewing computer is switched off without pressing the button **2** before closing the memory.



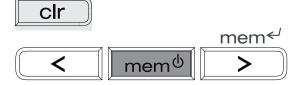
Overwriting individual stitch patterns, letters and numbers

- scroll with the right 3 or left 1 button to find the stitch pattern you want to overwrite
- select new stitch number/letter/number, new stitch length/width or needle position
- press the right arrow button 3; the stitch pattern is overwritten

Deleting individual stitch patterns, letters and/or numbers

- scroll with the right 3 or left 1 button to find the stitch pattern you want to delete
- press the «clr» button
- stitch pattern/letter/number is deleted

Deleting complete Memory contents



- press the «clr»-button, keep depressed and press the button 2
- release both buttons
- leave memory by pressing the button 2
- Memory is now completely deleted

Leaving the Memory

clr



- press button 2 = contents are saved
- Memory is closed
- «mem» disappears from the display

Stitch overview

Practical stitches



Straight stitch

All non-stretch fabrics; all straight-stitch work



Zig-zag stitch

Most fabric types; all simple zig-zag such as overcasting edges. Sewing on elastic and lace



2

Vari-overlock

Primarily for fine jerseys, stretch overlock seams and hems



Running stitch

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



Securing program

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



Triple straight and triple zig-zag

Reinforced seams in firm, heavy fabrics



Blindstitch

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



Double overlock

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



Super stretch

For super-stretch fabrics; open seam in all super-stretch fabrics



Gathering stitch

Most types of fabric. Gathering with shirring elastic. Butted seams = butting two pressed edges and sewing together



Stretch overlock

Mediumweight knits, toweling and firm wovens. Overlock seams, flat joining seams



Jersey stitch (B 335 only)

Natural, blended or synthetic fabrics and delicate knits. Visible seams and hems. Mending jersey/interlock



Universal stitch

Firm fabrics such as felt and leather. Flat joining seams, visible seams, attaching elastic, decorative seams



Lycra stitch

All two-way stretch fabrics, flat joining seams and hems, reinforced seaming on underwear



Stretch stitch (B 335 only)

All stretch fabrics; open seam in sportswear



Darning program

Automatic darning for fine and mediumweight fabrics



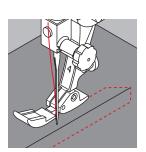
Honeycomb stitch

Most types of interlock and smooth fabrics; visible seams and hems

Examples of Application

Zippers





Zipper sole no. 4

Straight stitch

Preparation

- baste seam closed and clean finish the seam allowance
- baste or pin zipper in place so that fabric folded edges meet over the center of the zipper

Sewing in the zipper

- open zipper a little
- start sewing from top left
- position the foot so the needle stitches along the edge of the zipper coils
- stop in front of the pull (needle position down), raise the presser foot and close zipper again
- continue to sew to the base of the zipper (needle position down)
- turn fabric and sew across the seam (needle position down)
- turn fabric again and sew second side of the zipper from bottom to top

Variation: Sew both sides of zipper from bottom to top

- suitable for all fabrics with nap or grain (e.g. velvet)
- prepare zipper as described above
- start sewing in the seam of the zipper end and sew first side from bottom to top
- sew the second side the same way from bottom to top



To sew around zipper pull

- close the zipper and sew up to about 2" (5cm) away from the pull
- stop with the needle down in the fabric, raise the presser foot.
 Open zipper, pulling the tab below the needle; lower presser foot and continue to sew

Seam begin

Hold thread firmly when starting to sew = pull fabric slightly to the back (a frew stitches).

Zipper or fabric is thick or densely woven

For even stitch formation use a 90 -100 needle.

Darning



Reverse pattern sole no. 1 Buttonhole foot with slide no. 3A

Darning program

Quick darning of holes or worn areas

Replaces threads along the lengthwise grain in all fabrics.

Darning with Reverse pattern sole no. 1 (auto stitch counter)

- insert the needle in the top left of the worn area
- sew the first vertical row and stop the sewing computer
- press the Quick reverse button to program the length
- complete Darning program; the sewing computer stops automatically
- clear the program by pressing the «clr» button

Move project accordingly for a wider and/or longer darning area.

Darning with the Buttonhole foot with slide no. 3A

- use for small tears and damaged areas, not more than 3cm (1 1/4") long
- same procedure as with foot no. 1



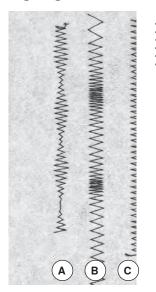
Reinforcement

Use fine fabric or (adhesive) interlining as a backing.

Preparation

Hoop fabric into darning ring to prevent puckering.

Zig-zag



Reverse pattern sole no. 1

- for all fabrics
- overcasting
- elastic seams
- decorate sewing

Overcasting edges

- guide edge of fabric into the center of the presser foot
- do not select too wide a width or too long a stitch
- needle goes into fabric on one side and over the edge into the air on the other side
- the edge should lie flat and not roll
- use a fine darning thread for lightweight fabric

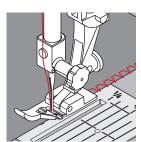
Satin stitch

- dense, short zig-zag stitch (stitch length 0.5 0.7mm)
- use satin stitch for appliqué, embroidery, etc.
- A Zig-zag stitch with altered stitch width
- B Zig-zag stitch with altered stitch length
- C Edge neatened with zig-zag stitch

Vari overlock







Overlock sole no. 2 Reverse pattern sole no. 1

Vari-overlock stitch

The Overlock sole no. 2 is specifically designed for overlock stitching. The pin on the foot allows for more thread in each stitch so that the elasticity of the seam is maintained.

Closed seam

Stretchy seam in fine, soft knits such as silk jersey and interlock.

- guide the open edge along the pin on the sole
- the stitch will form over the pin and over the edge of the fabric



Knits and jersey

Use a new Jersey needle to prevent damaging the loops.

Sewing stretch fabrics

If neccessary use a stretch needle (130/705H-S) = needle point slides between the fibers.

Double Overlock









Overlock sole no. 2 Reverse pattern sole no. 1

Double overlock stitch

Closed seam

Overlock seam in loose knits and cross seams in knits and jerseys.

Sewing

guide the open edge along the pin on the sole.

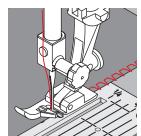
Ribbing with Overlock Stitch





Wrong side of fabric





Right side of fabric

Overlock sole no. 2 Reverse pattern sole no. 1

Vari-overlock stitch

For all fine cotton, synthetic and mixed fiber jersey.

Preparation

- fold ribbing in half and press
- with right sides together, pin and baste ribbing to neckline

Sewing

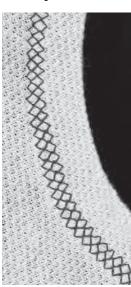
- sew Vari-overlock over the raw edge
- guide the open edge along the pin on the sole
- the stitch will form over the pin and over the edge of the fabric



Needle stop down

Needle stays in fabric when you stop to adjust the ribbing - great aid when sewing curves (necklines/armholes).

Honeycomb Stitch Edges





Reverse pattern sole no. 1

Honeycomb stitch

For all firm knits, especially cotton, wool, synthetic and mixed fiber jersey.

Preparation

Press (and baste if required) edge 1cm (3/8") to wrong side.

Sewina

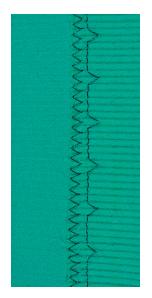
- sew from the right at a foot's width from the edge
- trim surplus fabric (wrong side)



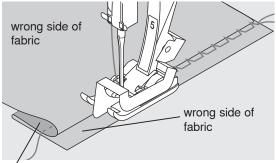
Needle stop down

Needle stays in fabric when you stop to adjust the ribbing - great aid when sewing curves (necklines/armholes).

Blind hem







right side of fabric

Blindstitch sole no. 5

Blindstitch

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

Preparation

- finish raw edges
- fold the hem and baste or pin in place
- fold the fabric back over the right side of the fabric to expose the finished lower edge (see drawing)
- place the work under the sole with the guide positioned against the foldedback fabric

Sewing

- the needle should just pierce the edge of the fold (as when hand blindstitching)
- adjust the stitch width to suit the fabric thickness
- after sewing about 4" (10cm), check both sides of fabric and adjust width again if necessary
- the metal guide on the sole of the blindstitch sole can be adjusted sideways by turning the screw on the right



Fine stitch-width adjustment

Guide the folded edge evenly along the metal guide on the sole = even depth.

Securing Stitch





Reverse pattern sole no. 1

Securing program

- for all fabrics
- secures beginning and end of seam

Sewing long seams

- quicker securing at beginning and end of seam
- even securing by defined stitch count

Starting to sew

- the sewing computer secures seam automatically (5 stitches forward, 5 stitches reverse)
- then it continues with straight-stitch forward



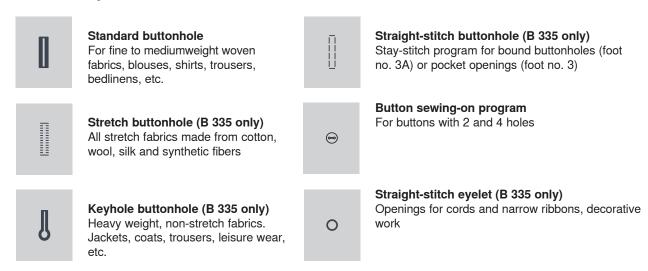
Ending the seam

- press the Quick reverse button on head frame; the sewing computer secures automatically (5 stitches reverse, 5 stitches forward)
- the sewing computer stops automatically when securing is complete

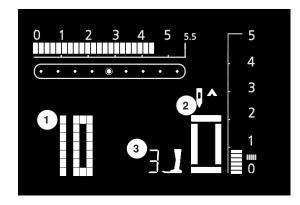


Buttonholes

Buttonhole Summary



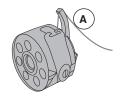
Everything you need to know about buttonholes



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

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

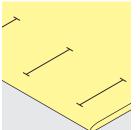
- 1 Buttonhole number
- 2 Buttonhole symbol (blinks)
- 3 Presser foot indicator

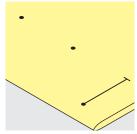


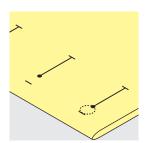
Thread tension for sewing buttonholes

- thread the bobbin thread through the finger **A** of the bobbin case = the bobbin thread tension is a little tighter
- this gives the beads on the right side of the fabric a slightly rounded appearance
- the buttonhole looks more attractive
- use cording to reinforce buttonholes and enhance their appearance (see p. 37)









Marking the length of manual buttonholes

- mark the buttonhole length in the desired position
- use Buttonhole sole no. 3

Marking the length of automatic buttonholes (with buttonhole foot with slide no. 3A only)

- 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
- use Automatic buttonhole foot with slide no. 3A

Marking 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 sew a test sample on the fabric with stabilizer you intend to use
- select the buttonhole type you intend to use
- sew the buttonhole in the same direction on the fabric (horizontal or vertical, with or against the grain)
- cut the buttonhole open
- push the button through
- adjust the buttonhole length if necessary

To adjust the bead width:

• alter the stitch width

Altering the stitch length:

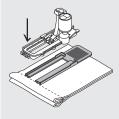
- stitch length adjustments affect both buttonhole beads (spacing between the stitches)
- reprogram the buttonhole length after changing the stitch length

Balance for automatic and manual buttonholes

Any balance alterations to the manual and auto-length buttonholes affect both beads identically because they are sewn in the same direction.

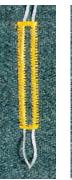


If a buttonhole is sewn at right angles to the fabric edge/fold, we recommend the use of the height compensating plates for buttonholes (available as optional accessory). Place the plates from the back between fabric and bottom of slide foot up to the thick part of the fabric and push to front.



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

Corded Buttonhole



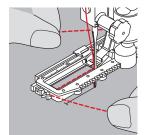


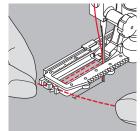
Cording

- use cording to reinforce buttonholes and enhance their appearance
- the loop of the cord should be at the end of the buttonhole that is most subject to wear = where button is sewn on
- position the work accordingly

Ideal cords

- Perle cotton no. 8
- strong hand-sewing thread
- fine crochet yarn





Hooking the cord in the buttonhole foot with slide no. 3A

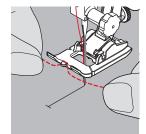
- insert the needle at the beginning of the buttonhole
- raise the presser foot
- guide the cord under the foot to the right
- hook the cord over the pin at the back of the foot
- guide the cord back to the front under the foot to the left
- pull the cord ends into the slits

Sewing

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



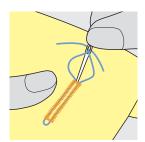
- Hooking the cord in the buttonhole sole no. 3
- insert the needle at the beginning of the buttonhole
- presser foot is raised
- hook the cord over the center pin on the front of the foot
- place both ends of the cord in their respective grooves on the sole of the foot and pull them to the back
- lower the presser foot





Sewing

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



Securing the cord

- pull the cord through the buttonhole until the loop disappears into the end of
- pull the ends of the cord through to wrong side of the fabric, using a hand stitching-needle
- knot or secure with stitches



It might be useful to secure the bartack with an extra pin when working short buttonholes.





Cutting buttonholes open with the seam ripper

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

Automatic standard buttonhole with auto-length





Buttonhole foot with slide no. 3A

Automatic standard buttonhole

The lens on Buttonhole foot with slide no. 3A automatically registers the length of the buttonhole for exact duplication.

the active step blinks on the screen





When any automatic buttonhole is selected, presser foot no. 3 is indicated on the screen.

WARNING!

The slide foot must lie perfectly flat on the fabric! If the slide foot rests on a seam allowance, the length cannot be measured accurately.







Programming the standard buttonhole

- 1. sew the first bead forwards, stop the sewing computer
 - press the Quick reverse button
 - «auto» and the presser foot no. 3A appears on the display = buttonhole length is programmed

the sewing computer sews the following automatically:

- 2. straight stitches in reverse
- 3. the first bartack
- the second bead forwards
- 5. the second bartack and securing stitches
 - the sewing computer stops and returns automatically to buttonhole begin

Auto-buttonhole

- all subsequent buttonholes will be sewn to exactly the same length (no need to press the Quick reverse button)
- clear the program by pressing the «clr» button
- Saving programmed buttonholes in long-term memory (see p. 41)



Sewing speed

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



Automatic keyhole buttonhole with auto-length





Buttonhole foot with slide no. 3A

Automatic keyhole buttonhole



Programming the buttonhole

- 1. sew the straight stitch forward, stop the sewing computer
 - press the Quick reverse button
 - «auto» and presser foot no. 3A appears on the screen = buttonhole length is programmed



- 2. the sewing computer automatically sews the eye
- 3. the first bead in reverse
- 4. straight stitches forwards
- 5. the second bead in reverse
- 6. the bartack and securing stitches
 - the sewing computer stops and returns automatically to buttonhole begin

Auto-buttonhole

- all subsequent buttonholes will be sewn to exactly the same length (no need to press the Quick reverse button)
- clear the program by pressing the «clr» button
- Saving programmed buttonholes in long-term memory (see p. 41)



Exact duplicates

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

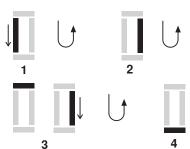
Double-sewn keyhole buttonholes

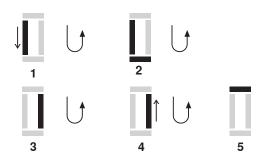
- keyhole buttonholes can be sewn twice on thick fabrics use a longer stitch length for the first run
- after sewing the first buttonhole, do not move the work
- reduce the stitch length and tap the foot control once to begin sewing again



Manual buttonhole (all types)







Sewing buttonholes manually is ideal if you only need to sew one; also for repairing existing buttonholes.

The number of steps depends on the type of buttonhole.

Manual buttonholes cannot be saved.

Buttonhole sole no. 3

Preparation

- select the desired buttonhole
- display shows:
- the number of the selected buttonhole
- Buttonhole foot no. 3
- the buttonhole symbol (the first step blinks on the display)
- insert the lower thread in the finger of the bobbin case

Sewing a manual standard buttonhole

- 1. sew the bead up to the end of the length marking
 - stop the sewing computer
 - press the Quick reverse button
- 2. sew reverse straight-stitch, stop the sewing computer at the first stitch of the bead (buttonhole begin)
 - press the Quick reverse button
- 3. sew the top bartack and the second bead, stop the sewing computer
 - press the Quick reverse button
- 4. sew the bottom bartack and securing stitches

Manual keyhole buttonhole

- 1. sew straight-stitch forwards, stop the sewing computer
 - press the Quick reverse button
- 2. sew the eye and the first bead in reverse, stop the sewing computer at the first stitch of the bead (buttonhole begin)
 - press the Quick reverse button
- 3. sew straight-stitch forwards and stop the sewing computer at the keyhole
 - press the Quick reverse button
- **4.** sew the second bead in reverse, stop the sewing computer at the first stitch of the bead (buttonhole begin)
 - press the Quick reverse button
- 5. sew bartack and securing stitches



Sew both beads at the same speed.



Buttonhole in Long-Term Memory

With Buttonhole foot with slide no. 3A only



Saving programmed buttonholes in long-term memory

- after programming press the button 3
- the buttonhole is now saved in long term memory

Recalling saved buttonhole

Programmed saved buttonholes can be opened for re-use even after the sewing computer has been disconnected.

- select the desired buttonhole type
- press the button 2
- sew the programmed buttonhole
- only one length per buttonhole can be saved. Saving a new length with the button 3 will overwrite the previously saved buttonhole length

Button sewing-on program





Darning foot no. 9 (optional accessory) Button sew-on foot no. 18 (optional accessory)

Sews buttons with 2 or 4 holes.

Sewing on buttons

- buttons sewn on for decorative purposes only are stitched without a thread shank
- the length of the shank (= thread between button and fabric) can be made shorter or longer as required with foot no. 18

Sewing on buttons with Darning foot no. 9

- select Button sew-on program
- check distances between holes with the handwheel and adjust stitch width if necessary
- sew the securing stitches; hold the threads when starting to sew
- sew program
- sewing computer stops automatically when program is completed and is ready for the next button

Beginning and ending threads

the threads are secured and can be trimmed

For secure results

- pull both bobbin thread ends until the ends of the upper thread are visible on the wrong side (knot if required)
- trim thread ends

Sewing on buttons with foot no. 18

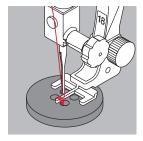
- set the shank length with the screw on the foot
- select Button sewing-on program and continue as with foot no. 9

Beginning and ending threads

the threads are secured and can be trimmed

For secure results

- pull both bobbin thread ends until the ends of the upper thread are visible on the wrong side (knot if required)
- trim thread ends





Sewing 4-hole button

- sew the front holes
- carefully move the button forward
- sew the back holes with the same program

More stitches

Basting stitch



Darning foot no. 9 (optional accessory)

Basting stitch

- for all work which requires a very long stitch
- for basting seams, hems, quilts, etc.
- temporary joining
- easy to remove

Preparation

- lower the feed-dog
- pin work at a right angle to basting direction to prevent the layers from slipping

Basting

- position work under the presser foot and sew one stitch; hold threads when starting to sew
- pull work from behind to the required length of the stitch
- sew one stitch and repeat the procedure



Securing/fixing the thread

Sew a few short basting stitches at the beginning and end of a seam.

Thread

Use a fine darning thread for basting as it is easier to remove.

Handlook quilting stitch



Reverse pattern sole no. 1

Handlook quilting stitch

Suitable for all fabrics and work which should look «hand sewn».

Test-sewing

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

Upper thread tension

Depending on the fabric = increase the tension (6-9).

Balance

Adjust stitch with the Balance if necessary.



Perfect corners

- activate Pattern end and Needle stop down and pivot the work
- when pivoting make sure that the fabric does not become distorted

Monofilament breaks

- sew more slowly
- reduce upper thread tension slightly

Cleaning, maintenance







Cleaning the screen and the sewing computer

Wipe with a damp cloth.

Feed-dog area

Clean the sewing computer after every use - remove any lint from under the stitch plate and in the hook area.

- power switch to «0» (off)
- pull out plug from electrical outlet
- remove presser foot and needle
- open the free arm cover
- press the stitch plate down at the back right corner, lift and remove
- · clean the area with the lint brush
- replace the stitch plate

Cleaning the hook

- power switch to «0» (off)
- pull out plug from electrical outlet
- remove the bobbin case
- push the release lever to the left
- let down the locking lever and the black hook race cover
- remove the hook
- clean the hook race with a cloth or brush, never use a sharp instrument
- replace the hook, turning the handwheel if necessary until the hook driver is on the left
- close the hook race cover and secure with the locking lever, the locking pin must engage
- check by turning the handwheel
- insert the bobbin case

Lubricating

- power switch to «0» (off)
- pull out plug from electrical outlet
- squeeze 1 or 2 drops of oil into the hook race
- run the sewing computer for a short time without thread to prevent oil soiling your work

WARNING!

Disconnect plug from the socket before cleaning or lubricating!

WARNING!

Never use alcohol, petrol, white spirit or any type of solvent to clean the sewing computer!



Troubleshooting

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

Check whether:

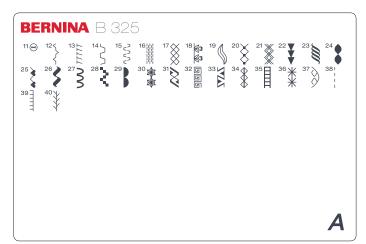
- the upper and lower threads are threaded correctly
- the needle is inserted correctly with the flat side to the back
 the needle size is correct; see "Overview Needles" p. 22
- the needle tip and shaft are undamaged
- the sewing computer is clean brush out any thread lint
- the hook race is clean
- any threads are trapped between the tension discs or under the bobbin case spring

Fault	Cause	Repair
Uneven stitch formation	 Upper thread too tight/too slack Needle blunt or bent, poor-quality needle Needle inserted incorrectly Poor-quality thread Needle/thread combination is incorrect Incorrectly threaded 	 Reduce/increase upper thread tension Use new, high-quality needle (BERNINA) The flat side of the shank must be to the back Use quality threads (Isacord, Mettler, Gütermann) Match the needle to the thread size Check upper thread threading path/lower thread threading path
Skipped stitches	 Incorrect needle system Needle blunt or bent, poor-quality needle Needle inserted incorrectly Incorrect needle point 	 Use needle system 130/705 H Use new, good quality needles Insert needle as far up as it will go Match the needle type to the fabric
Upper thread breaks	 Upper thread tension too tight Incorrectly threaded Poor-quality or old thread Stitch plate or hook tip damaged 	 Reduce upper thread tension Check upper thread threading path Use high-quality thread Have sewing computer checked by a specialized dealer
Lower thread breaks	Lower thread tension too tightStitch hole in the stitch plate damagedNeedle blunt or bent	 Reduce lower thread tension Have sewing computer checked by a specialized dealer Use new needle
Needle breaks	 Needle not correctly inserted Fabric was pulled Fabric was pushed when thick material used Poor-quality thread, unevenly wound or knotted 	 Tighten the needle clamp screw Do not pull the fabric during sewing Use the correct presser foot for thick material (e.g. Jeans foo no. 8) (optional accessory), use height compensating tool when sewing over a thick seam Use high-quality thread
Thread is caught in the area of the take-up lever	Upper thread breaks	If the upper thread breaks and the thread is trapped in the area of the take-up lever, proceed as follows: • power switch to «0» (off) • remove the screw on the headframe with the hex key • turn headframe cover slightly to the left, then slide it upwards • remove remnants of thread • attach headframe and retighten screw
Faulty stitching	 Remnants of thread between the tension discs Incorrectly threaded Remnants of thread under the bobbin case spring 	 Fold a piece of thin fabric and slide the folded edge (not the raw edges) between the thread tension discs, moving the fabric back and forth to clean the right and left side of the thread tension Check upper and lower thread Carefully remove any thread remnants from under the spring
Sewing computer	Sewing computer fails to run or runs slowly	 Plug not properly inserted power switch to «0» (off) Sowing computer has been standing in a cold room

Sewing computer has been standing in a cold room

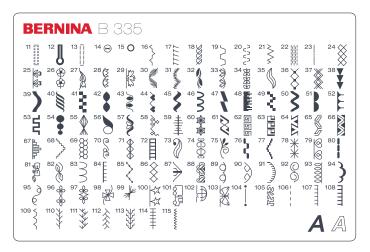
Stitch-Pattern Summary

BERNINA 325



- Button sewing-on program
 Gathering stitch
 Stretch overlock
 Universal stitch
 Lycra stitch
 Darning program
 Honeycomb stitch
 Decorative stitches
- 18-37 Decorative stitches38-40 Quilting stitches

BERNINA 335



11 Stretch buttonhole 12 Keyhole buttonhole 13 Straight-stitch buttonhole Button sewing-on program 14 15 Straight-stitch eyelet 16 Gathering stitch 17 Stretch overlock 18 Jersey stitch Universal stitch 19 20 Lycra stitch Stretch stitch 21 22 Darning program 23 Basting stitch Honeycomb stitch 25-103 Decorative stitches 104-115 Quilting stitches



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