

BERNINA



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vention of faults pper thread breaks ower thread breaks aulty stitches leedle breaks eam error lachine only runs slowly or

wing in carrying case correct position in case

ortant!

Regulations

to BEAB and OSHA safety requofficial testing centres in Great nd the U.S.A.). owing safety regulations must be

without fail:

moving needle is a source of er (risk of injury to fingers). The g position must therefore be inder constant observation.

pulations within the area of ment of the needle, such as ging the needle, the presser foot tch plate, must only be performith the machine switched off switch set to O position). The applies when removing and reig the lower thread bobbin or

g maintenance work (cleaning pricating) or changing the light and interruptions in sewing or completion of work, the ine must be disconnected from ower supply by pulling out the plua.

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View of Machine



1	Hinged cover on free-arm
2	Free-arm cover
3	Needle plate
4	Presser foot
5	Needle holder clamp
6	Thread regulator
7	Automatic long stitch & basting device switch
8	Thread take-up lever
9	Thread tension slot
10	Thread tension disc
11	Top frame cover
12	Thread tension indicator
13	Adjusting wheel for thread tension
14	Pattern indicator
15	Lamp indications
16	Red stitches
17	Green stitches
18	Selector lever
19	Changeover lever
20	Reel holder pins
21	Cover of bobbin winding device
22	Bobbin spindle
23	Thread cutter
24	Hand-wheel
25	Stitch width knob
26	Needle position knob
27	Main switch
28	Buttonhole knob
29	Stitch length knob
30	Symbol for sewing / darning
31	Connection for foot control unit
32	Sewing/darning knob
33	Red/green stitch knob

in the second se



Dear Bernina Customer,

We would like to congratulate you on the purchase of your new Bernina sewing machine and thank you for the confidence shown in our products.

You have acquired a top-quality Swiss product, manufactured with the utmost skill and care at our Bernina factory in Steckborn / Switzerland.

«My Bernina Guide» provides you with all the necessary information about your Bernina and its countless applications for sewing work.

If you should require further details or advice about your sewing machine or sewing problems, please contact your Bernina stockist.

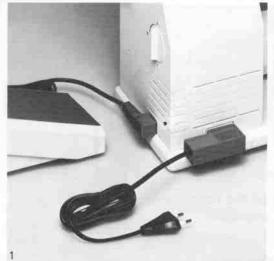
We hope you are successful and happy with your sewing and dressmaking work.

With kind regards

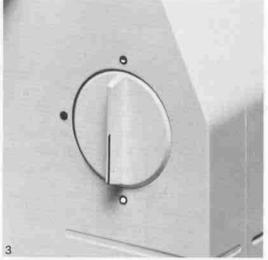
Odette Cellseli

Odette Ueltschi-Gegauf, Chairman of the Board FRITZ GEGAUF LTD.
Manufacturer of Bernina Sewing Machines, CH-8266 Steckborn TG, Switzerland

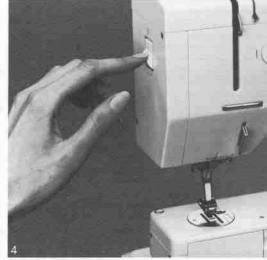
Electrical Section



Connecting mains cable and foot control unit The terminals on the machine for mains cable and foot control unit can be seen in Fig. 1.



Power switch The power switch on the right below the handwheel (Fig. 3) has 3 positions:



Sewing light The sewing light is switched on and off with the switch fitted in the front cover (Fig. 4). The sewing light is also switched off when the main switch is at O = off.



Off - the machine is switched off

 On — the machine is switched on for maximum sewing speed. The sewing speed can be regulated up to maximum speed by pressing the foot plate of the foot control unit.

On — the machine is switched on for reduced sewing speed. At this switch position the maximum speed is reduced to approximately half. When switched to «reduced sewing speed» sewing is made much easier for more difficult work as well as for those less used to electric sewing machines.

Motor The d.c. motor and electronic speed control ensure exceptional penetrating power even when sewing slowly. The high penetrating power considerably simplifies the sewing of very heavy materials, very dense fabrics and thick seams.

Electronic needle stop Every time you stop sewing an electronic system takes the needle to its highest position. A light tap with the heel on the back of the foot control will take the needle electronically down into the work. A second tap will bring it up again and so on.

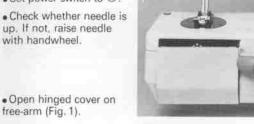
Foot control unit (Fig. 2) For controlling the sewing speed.

Removing **Bobbin Case**

Winding Lower Thread

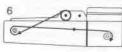
Inserting Bobbin

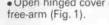
- Set power switch to O.
- up. If not, raise needle with handwheel.





 Place thread on a reel holder pin and take it clockwise around the pretension stud to the empty bobbin (Fig. 6). Wind





· Lift the latch of the

hobbin case with the

bobbin case (Fig. 3).

index finger of the left

hand (Fig. 2) and remove



 Open cover of bobbin winding device (Fig. 4). This disengages the machine.

· Place empty bobbin on spindle (Fig. 5). This switches on the

winding device.

round empty bobbin several times, also in a clockwise direction.

- Set power switch to
- Start bobbin winding device by operating foot control unit. When the bobbin is fully wound. the winding device switches off automatically.

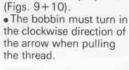


pulling against the small blade (Fig. 7). · Do not yet close cover of winding device! Hold bobbin case in one hand, insert bobbin so that the thread is wound in the clockwise direction. see arrow (Fig. 8). . Pull thread through the slot and below the spring until it lies in the T-shap-

Cut thread when

removing bobbin by

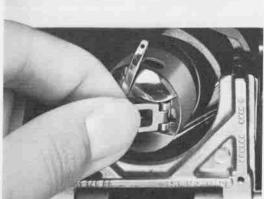




ed slot at the end of the

bobbin for this purpose,

spring, do not hold









Inserting bobbin case into hook

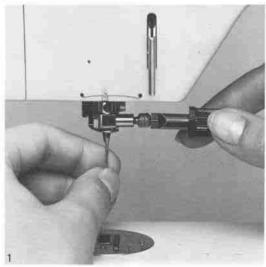
- . Hold bobbin case by the latch with the index finger and thumb of the left hand. Insert so that the finger of the bobbin case points upwards and fits in the notch of the hook race cover.
- · Check: pull end of thread
- · Close hinged cover
- · Close cover of winding device



Inserting Needle

Changing Presser Foot

Threading Upper Thread



Refer to page 9 concerning presser feet and their range of application. The success or otherwise of a piece of sewing largely depends on the correct choice of presser foot. It must therefore be simple and quick to change the presser foot.



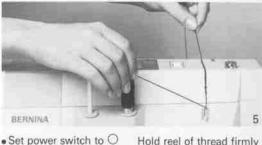
 Set power switch to O · Check whether needle is up · Raise presser foot

(Fig. 2)

· Raise presser foot Place reel of thread on one of the two reel holder pins.

is up

Check whether needle

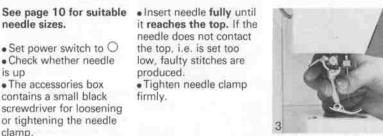


· First clip the thread into the thread guide at the rear of the machine, then bring it through the slot in the thread tension

while threading (Fig. 5).

(Fig. 5). · At the front of the machine take thread downwards under the thread regulator, up again to the take-up lever and then downwards to the needle holder thread

guide (Fig. 6).





. Securing the presser foot: same procedure, but press clamping lever downwards with index finger (Fig. 4).

Raise clamping lever

the right hand and re-

move the presser foot

and thumb (Fig. 3).

using the middle finger

with the index finger of



· Always thread needle from front. The small white plate on the front of the presser

to thread the eve of the needle.

foot shaft makes it easier

· Pull thread approx. 10 cm through eve of needle.



· Loosening the needle

anticlockwise (Fig. 1)

. Inserting needle: flat

shank side of needle

always at rear

clamp: half a turn to left,

Bringing up Lower Thread

Lowering Feed-dog

For certain types of sew-

ing, e.g. darning, the

material should not be

moved by the feed. For

this purpose, the feed-

dog must be lowered by

turning the outside, bot-

tom circular knob to the

below the || symbol (Fig. 2)

right, until the mark is

Thread Tension

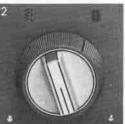
. Hold end of upper thread with the right hand

. Sew 1 stitch by tapping the foot control unit. The electronic needle stop ensures that the needle will be in the raised position.

· Pull upper thread so that the lower thread is brought up through the hole in the needle plate (Fig. 1).

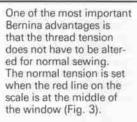
 Take both threads through the slot of the presser foot and clip into thread cutter.

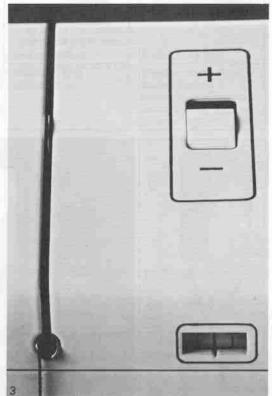
Instead of using the electronic needle stop, the lower thread can be brought up by turning the hand-wheel forward with the right hand until the needle and take-up lever are again in their highest position. In this case the upper thread must be



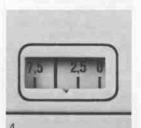
For all normal sewing work the mark must be on the left below the ≶ symbol.







For special sewing, e.g. for sewing tailor tacks, the thread tension can be adjusted with the adjusting wheel. Turning this wheel backwards, towards the «+» sign, produces a tighter upper thread tension. The figures 7, 5 and 10 appear in the window. Turning the adjusting wheel forwards, towards the « - » sign, produces a looser upper thread tension. The figures 2, 5 and O appear in the window (Fig. 4). Do not forget: reset thread tension to normal, red line in the middle. when a special piece of sewing requiring tension alteration has been completed.





Presser Foot Lifter

Sewing Table

Accessories Box

Many sewing operations are considerably simplified if both hands can be used for guiding the work.

The presser foot lifter is used for raising and lowering the presser foot with the right knee, leaving the hands free. When the presser foot lifter is pressed to the right the foot is raised, at the same time the feed-dog will be lowered. The next stitch will return the feed-dog to sewing position.

The sewing table is used to enlarge the working surface. It should be used for all sewing for which the free-arm is not required.

Attaching the sewing table

Slide the table in over the free-arm until the center pins slip into the corresponding openings. By pushing hard in the direction of the arrow the table can be fixed to the pins with its holding device.

The table can be released from its holding device by pulling it hard to the left (away from the machine).

The accessories are clearly accommodated in the flat accessories box. A summary of the most important basic settings of your sewing machine can be found inside the cover.

Attaching

the presser foot lifter: The presser foot lifter is contained in the carrying case. The opening for the presser foot lifter is located at the right on the front in the base-plate below the lower knob.

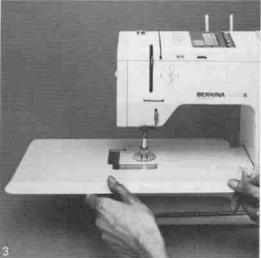
 Insert presser foot lifter so that it hangs to the left (Fig. 1).

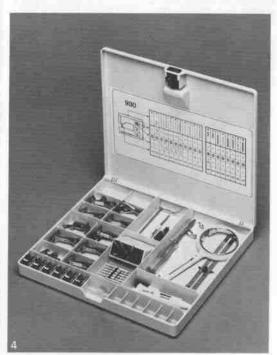
If the presser foot lifter is moved to the right, the presser foot is raised. It should be possible to operate the presser foot lifter comfortably with the right knee, without altering your customary sitting position.

If the angle of the presser foot lifter provided is inconvenient, it can be adjusted.

Your Bernina dealer will gladly make this adjustment for you.







Presser Foot

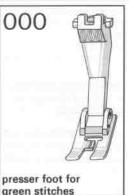
Presser feet are an important aid to sewing. They are provided with grooves and guides. The success or failure of a piece of sewing therefore also depends on the correct choice of presser foot.

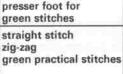
The presser feet are not therefore only suitable for a specific operation. They are also used for simplifying any other work. For example the

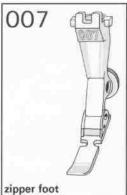
buttonhole foot: Buttonhole

- = main application Gathering
- = further application

Several presser feet look very similar at first glance. They are provided with numbers to avoid confusion. The presser feet illustrated on this page are the standard accessories supplied to most countries. In other countries with varying sewing practices, the range of presser feet may be different. Additional presser feet can be obtained for more specialised sewing work. Ask your Bernina dealer for advice.



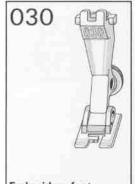




sewing in zips sewing piping close along stitching line raised seam

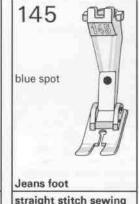


blind hemming edge stitching

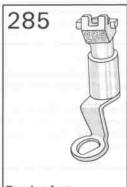


Embroidery foot decorative stitches

satin stitches appliqué, oversewing beading cord, couching on woollen thread

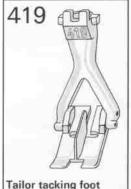


in thick, hard materials and over thick seams

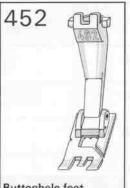


Darning foot

Darning Monograms by free Free hand embroidery

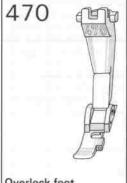


Tailor tacking Fringes Embroidering terry cloth



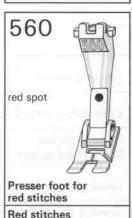
Buttonhole foot

Buttonholes Gathering



Overlock foot

Vari-overlock seam Vari-overlock hem Overcasting seams



Needle and Thread

Special Needles

Please note:

Your Bernina is provided with Needle System 130/705H

Make sure when purchasing new needles that you receive needles of the 130 / 705 H system.

The needle size to be used depends on the thread selected, the needle must match the thread.

The adjoining table indicates which needle is suitable for which thread. Needle sizes no. 70 to no. 120 are usual in the trade. The finer the needle, the lower the number. It is the opposite for the thread. The finer the thread, the higher the number.

The thread lies in the long groove of the needle during sewing. If the needle is too fine, there is no room for the thread in the groove. The result is faulty stitches.

Needle	70	80	90	100	110- 120
Darning thread	*	*			
Embroidery thread No. 30		*			
Sewing thread Mercerised cotton		*	*		
Sewing thread synthetic		*	*		
Sewing thread coarse Mercerised cotton, synthetic	-		*	*	
Buttonhole thread for decorative seams (cordonnet)				*	*

Special needles make it easier to sew difficult materials.

Ball-point needles help to prevent damage to knitted fabric.

System 130/705 H—SES = fine round tip for fine knitted fabrics, particularly synthetics.

System 130/705 H—SUK = medium round tip for medium to coarse knitted fabric, particularly synthetics.

System 130/705 H—S = stretch (only Nm90!) specially for elastic synth. knitted fabrics.

Jeans needles penetract easier through hard fabrics.

System 130/705 H—J= slender tipped form for jeans fabrics and other compact, hard fabrics.

Leather needles penetrate leather more easily.

System 130/705 H–LR = cutting tip for hard leather particularly.

Some Sewing Tips

Sewing is made much easier if the correct sitting position is adopted and the work is guided properly.

Some advice

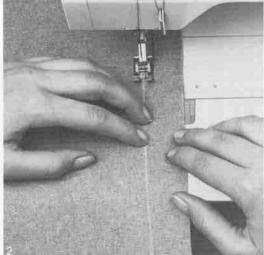
Place your Bernina far enough in from the edge of the table, so that the attached presser foot lifter hangs just in front of the table edge. Sit right in front of the needle, i.e. in front of the work area. and not at the centre of the machine. This will enable you to watch the working area more closely without strain. Ensure that the height of your seat permits comfortable working. Sitting too low or too high makes the work more tiring.

Guiding from the front is not satisfactory, since the material can be involuntarily held back (Fig. 1). Nor should the material be pulled from behind the presser foot.

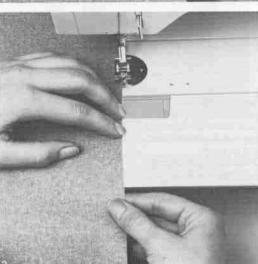


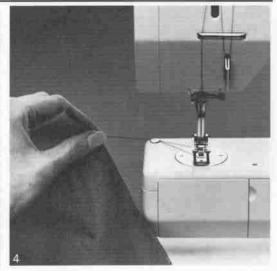
It is best to guide the material from the side with the fingers of the left hand close to the presser foot (Fig. 2).

For difficult work, particularly with thin materials, it is preferable to stop and guide it a little at a time rather than let work slide beneath the hand.



Sewing of edges, overcasting, top stitching, edge finishing, sewing on lace, etc. are more successful if guided on the edge (Fig. 3).





When removing the sewing raise the presser foot, remove the material to the rear left and pull both threads through the thread cutter. The threads are released automatically when sewing begins again.

Straight Stitch

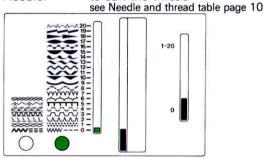
Green stitch 0

Presser foot: Thread:

Needle:

000

to suit material to suit the thread



Stitch selector lever selection: changeover lever O

Stitch width: Needle position: centre

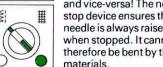
Buttonhole 0

Stitch length: 1-4 as required normal stitch

length is 11/2-2

Feed-dog: sewing





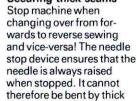
Forwards sewing With the settings specified, the machine sews forwards with the stitch length selected. The stitch length is selected according to the sewing work and material to be sewn.

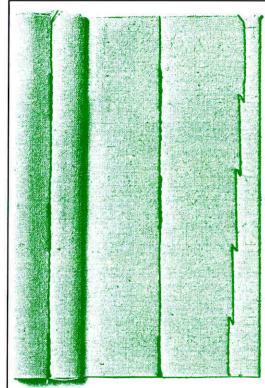
Reverse sewing Move and hold stitch length knob upwards above 0 until reverse sewing is completed. When the knob is released, the machine sews forwards again with the previously selected stitch length.



Securing the ends Sew approx. 1 cm re-

verse and then forwards again at beginning and end of seam. Securing thick seams

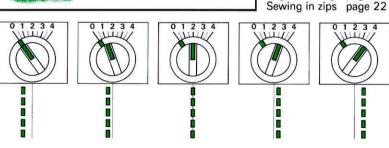




Five needle positions The position of the stitch can be set at five positions right or left with the knob for setting the needle position.

The needle is at the centre for normal sewing

Application examples: Blind hem page 24 Edge stitching page 25



Colour mark:

Setting zig-zag

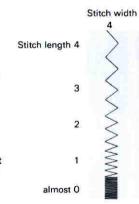
Presser foot:	000
Thread:	to suit material
Needle:	to suit thread
Stitch selection:	selector lever 0
	changeover lever 0
Stitch width:	1-4
Stitch length:	1-4
Needle position:	centre
Feed-dog:	sewing
Colour mark:	

Zig-zag Setting the width :

The width of the zig-zag stitch is set with the stitch width knob. It can be set fully variably up to 4 mm.

The stitch width can be altered while sewing or with the machine stationary.

But the needle must not be in the material when the machine is stationary!



darning thread if possible, particularly for fine material.

Guide edge of material in **centre** of presser foot, so that the needle penetrates alternately in the material and then outside (Fig. 1).

If sewn on the edge, also guide on the edge (Fig. 2).

Satin stitch = close zig-zag

Presser foot:	030 embroidery foot
Thread:	embroidery thread 30
Needle:	80
Stitch width:	11/2-4
Stitch length:	almost 0

Set stitch length for very close zig-zag:

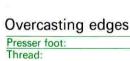
Turn stitch length knob to the right until it locks.

Mark on knob is on top. Stitch length is then 0.

By turning half a revolution to the **left** — mark is underneath — the **basic setting** of stitch length is obtained.



Adjust stitch density from basic setting to suit material. Turn a little to the left for thicker material, a little to the right for finer material. Sew a sample.



 Presser foot:
 000

 Thread:
 darning thread, possibly sewing thread

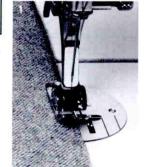
 Needle:
 80-70

 Stitch width:
 2½-4

 Stitch length:
 1-4

In general: zig-zag should not be too wide and

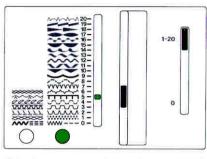
stitch length not too long, cut edge neatly first. Use





Selecting the Green Stitches stitches 1 ... 20

Presser foot: 000 Thread: to suit the material Needle: to suit the thread



· Press selector lever to right to disengage and set to desired stitch 1 ... 20.

· Set changeover lever to 1 - 20.

· Set knob for colour mark to green.

See page 17 for application examples of green stitches 1...20.

Stitch: selection:

Stitch width:

selector lever changeover lever 1-20

Universal stitch 3

Scallop stitch 9

Stitch selection:	selector lever	3	
	changeover lever	1-20	
Stitch width:	4		
Stitch length:	2		

Needle position centre



Stitch selection:	selector lever	9
	changeover lever	1-20
Stitch width:	4	
Stitch length:	1/4	

Buttonhole 0



Running stitch 8 Stitch selection:

selector lever	8
changeover lever	1-20
4	
1 1/2	

Stitch length:

Feed-dog:

Colour mark:



sewing

1 - 4

1 - 4

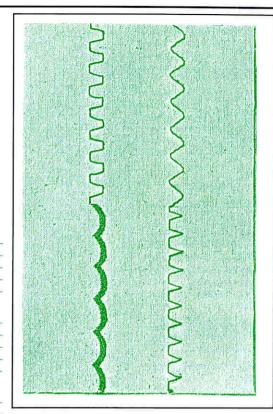


Vari avarlant 7

Stitch width:

Stitch length:

vari-overlock /		
Stitch selection:	selector lever	7
	changeover lever	1-20
Stitch width:	4	
Stitch length:	1-11/2	
Needle position:	right	



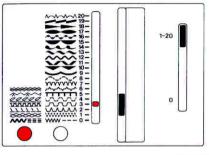
Selecting the Red Stitches

Stitches 1 ... 6

Stitches 0

Presser foot: 560 Thread: Needle:

to suit the material to suit the thread



Stitches 0

Stitch width 0 produces the triple straightstitch.

Stitch width 1-4 produces the triple zig-zag stitch.

See page 16 for application examples.

Stitch selector lever selection: changeover lever

Stitches Stitches 1 ... 6 1 ... 6 0 1 - 20Ö

Stitch width: Needle position:

Buttonhole

Stitch length:

Colour mark:

centre

0

2 - 3

Feed-dog: sewing



Triple straight stitch 0

Stitch selection:	selector lever U
	changeover lever 0
Stitch width:	0
Stitch length:	2–4

selector lever

Triple zig-zag 0 Stitch selection:

changeover lever Stitch width:

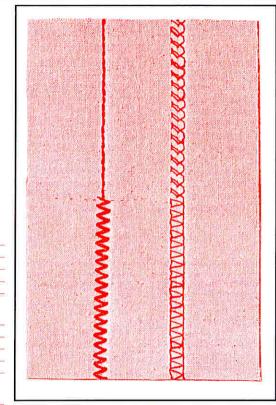
2-4 Stitch length:

Jersey stitch 4

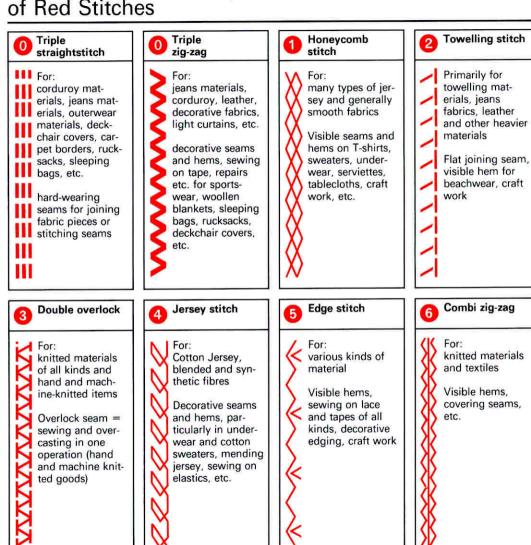
Stitch selection: selector lever 1-20 changeover lever Stitch width: Stitch length:

Double overlock 3



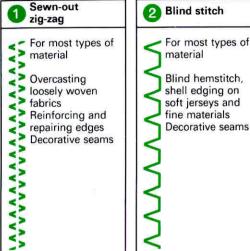


Applications of Red Stitches

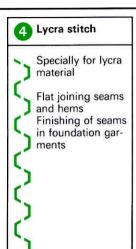


Applications of Green Stitches

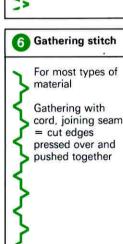
Decorative stitches



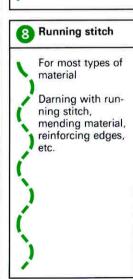


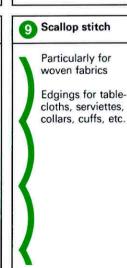














Sewing Knitted Fabrics

e.g. jersey

the knit.

The following generally applies when sewing knitted materials:

1. Use a perfect needle!

Even a slightly blunt needle damages the knit and holes appear after a short time

2. Use fine sewing thread, particularly for the fine jerseys. Coarse thread can also damage

3. Use darning thread

for basting. Darning

thread, when sewn over, can be more easily removed than the much thicker and shorter-fibre basting thread.

4. Press seams immediately after sewing. This

simplifies subsequent work considerably.

5. Sew a sample to test the stretchiness of the stitch. The chosen stitch should be as elastic as the material since the elasticity of modern tex-

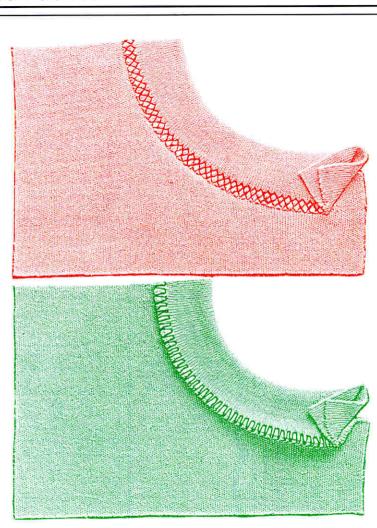
tiles varies considerably.

the basic settings of the

practical stitches can be

altered if necessary.

For highly-elastic materials try making the stitch length slightly shorter and stitch width slightly wider. This provides the seam with more thread and it is made



Rib-trim with decorative seam Particularly for cotton jersey. (Pyjamas, T-shirts,

sports underwear, lingerie) Presser foot: 560 sewing thread Thread: Needle: 80 Stitch selection: selector lever changeover lever 20 Stitch width: 4 Stitch length: Needle position: centre Feed-dog: sewina Colour mark:

Press cut strip in half

lengthways. Pin or baste on right side of neckline (basting device, stitch length approx. 1).

Then sew on with honeycomb stitch. Guide work so that needle stitches exactly to the edge of trim. Cut off surplus

material on back

Rib-trim with overlock seam For all kinds of jersey.

Presser foot: 470
Thread: sewing thread
Needle: 80
Stitch selection: selector lever 7

Stitch selection: selector lever 7 changeover lever 1–20
Stitch width: 4
Stitch length: 1 approx.

right

Feed-dog: sewing
Colour mark:

Press cut strip in half

Press cut strip in half lengthwise. **Pin** to neckline on **right side**, cut edges of trim level with

Needle position:

edge of neckline. Guide k- cut edge along pin of overlock foot when sewing.

Hems with Practical Stitches

In general:

haste hem - mark desired width - sew - trim off surplus material. The «Hints for working with knitted materials» page 18 apply to all types of iersey

Visible hem with jersey stitch

Presser foot:	560	
Thread:	sewing thread	
Needle:	80	
Stitch selection:	selector lever	4
	changeover lever	1-20
Stitch width:	4	
Stitch length:	2	
Needle position:	centre	
Feed-dog:	sewing	
Colour mark:		

Visible hem with vari-overlock

Presser foot:	470	
Thread:	sewing thread	
Needle:	80-70	
Stitch selection:	selector lever 7	
	changeover lever 1-	-20
Stitch width:	4	
Stitch length:	1 approx.	
Needle position:	right	
Feed-dog:	sewing	
Colour mark:		

Visible hom with triple zie zoe

visible nem wit	n triple zig-zag
Presser foot:	560
Thread:	sewing thread
Needle:	80
Stitch selection:	selector lever 0
	changeover lever 0
Stitch width:	4
Stitch length:	2
Needle position:	centre
Feed-dog:	sewing
Colour mark:	

Visible hem with jersey stitch Flastic visible hem for

cotton jersey, fine wool, synthetics and blended fibres. Pyjamas, T-shirts, lin-

Pin or baste hem with

gerie, sports underwear. basting device. Cut edge can also be sewn directly over the edge.

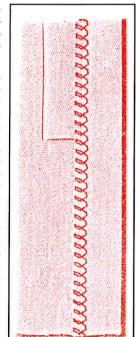
Visible hem with varioverlock

Highly-elastic visible hem for all highly-elastic jerseys: terry cloth stretch / helanca / very soft cotton and woollen jerseys.

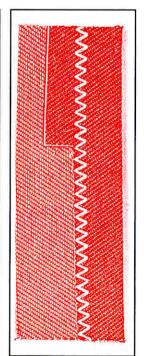
Pin or baste hem with basting device. Sew hem approx. 1 cm from raw edge. Cut off surplus material.

Visible hem with triple zig-zag Hard wearing visible hem for firm fabrics, leans, etc.

Pin or baste hem with basting device. Sew hem approx. 1 cm from raw edge. Cut off surplus material.







Seams with Practical Stitches

The choice of type of seam depends entirely on the article. The choice of practical stitch on the material used. We distinguish between three types of seam:

- they lie flat - they are narrow and cannot be let out
- they do not roll up, edges are neat

Stitch length:

Colour mark:

Feed-dog:

Needle position:

Range of application: beachwear, leisure-wear, foundation garments,

Triple straightstitch seam

Zig-zag seam

woollen jersey.

Stretch seam

home-dressmaking articles.

Hard-wearing seam for firm fabrics.

Seam for normal elastic iersey in wool, synthetics or blended fibres, as well

Highly-elastic seam for stretch materials, particularly for all kinds of as for silk-, cotton- and sports-wear.

Open seams: are seams which are pressed open

- they lie flat and do not roll - they allow the garment to be let out

Range of application: dresses, pants, skirts, jackets, coats, etc.

Overlock seams: are seams which are sewn and overcast in one operation

- they are quickly made - they are narrow, but do not allow the garment to be let out

Range of application: particularly knitted fabrics for sweaters, jackets, jersey blouses, linen, hand and machine-knitted gar-

ments.

Flat joining seams: are seams where the cut edges are lapped and then sewn over 20

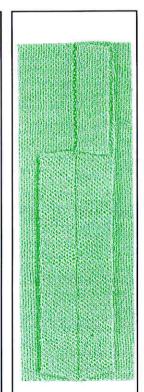
Presser foot: 560 sewing thread Thread: 80 - 90Needle: selector lever Stitch selection: changeover lever Stitch width: 0 2 - 3Stitch length: centre Needle position: Feed-doa: sewing Colour mark: Zig-zag seam open seam Presser foot: 000 sewing thread Thread: 80 Needle: Stitch selection: selector lever changeover lever Stitch width: Stitch length: 1-11/2 Needle position: centre Feed-dog: sewing Colour mark: Stretch seam open seam Presser foot: 000 sewing thread Thread: 80 Needle: selector lever 5 Stitch selection: changeover lever 1-20 Stitch width: 1-11/2

 $\frac{1}{2} - 1$

centre

sewing

Triple straightstitch seam open seam





Seams with Practical Stitches

Vari-overlock sean	n	
Presser foot:	470	
Thread:	sewing thread	
Needle:	80-70	
Stitch selection:	selector lever	7
	changeover lever	1-20
Stitch width:	4	
Stitch length:	approx. 1	
Needle position:	right	
Feed-dog:	sewing	
Colour mark:		

Vari-overlock seam

Highly-elastic overlock seam for all **fine** jersey dresses, blouses, linen, sports underwear.

Double overlock stitch seam

Elastic overlock seam for all coarse and largemeshed knitted goods and heavy jersey.

Flat joining seam

Visible seam for towelling, felt, leather, jeans fabric, leisure-wear, craftwork.

Flat joining seam

Elastic seam for lycra

Double-overlock stitch seam

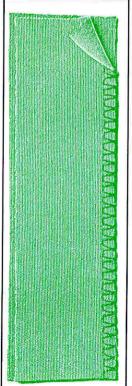
Presser foot:	560	
Thread:	sewing thread	
Needle:	80	
Stitch selection:	selector lever	3
	changeover lever	1-20
Stitch width:	4	
Stitch length:	2-3	
Needle position:	centre	
Feed-dog:	sewing	
Colour mark:		

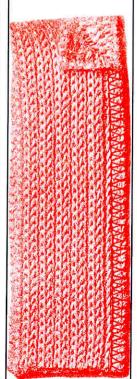
Flat joining seam

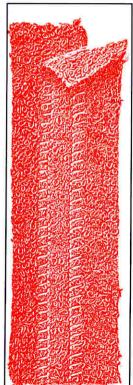
Presser foot:	560	
Thread:	sewing thread	
Needle:	80	
Stitch selection:	selector lever	2
	changeover lever	1-20
Stitch width:	4	
Stitch length:	2	
Needle position:	centre	
Feed-dog:	sewing	
Colour mark:	<u> </u>	

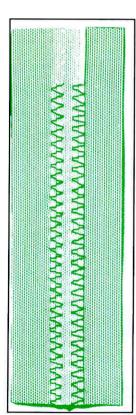
Flat joining seam

Presser foot:	000	
Thread:	sewing thread	
Needle:	80	
Stitch selection:	selector lever	4
	changeover lever	1-20
Stitch width:	4	
Stitch length:	³ / ₄ —1	
Needle position:	centre	
Feed-dog:	sewing	
Colour mark:		





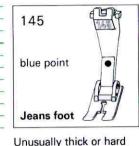




Jeans Foot

Zip fastener inserted flat

Presser foot:	007
Thread:	sewing thread
Needle:	80
Stitch selection:	selector lever 0
	changeover lever 0
Stitch width:	0
Stitch length:	2 approx.
Needle position:	left / right
Feed-dog:	sewing
Colour mark:	





length of zip and sew seam as far as zip opening. Unpick basting thread - except along zip section. Press entire seam, trim evenly and overcoast. Remove remaining basting thread.

material. Sew-in zip, both sides from bottom to top, once with the needle position right and once

with needle position left.

Baste entire seam with basting device. Mark Baste-in zip so that the teeth are covered by the

ieans foot. Select stitch length as required between 2 and 3.5 mm. Please ensure that needle position «centre» and stitch width «O» are set.

seams can be sewn with-

out difficulty with the

Use needle No. 100

Plastic

Like synthetic fibres, plastic must be treated differently according to, surface and graining when securing the edges. If the work does not slide properly it is often sufficient to lubricate the sewing area slightly with sewing machine oil (using a small cotton wad wrapped in absorbent material). Alternatively use presser foot with sliding rollers or Teflon base.

Always sew plastic with long stitch length to prevent cutting.

Leather and imitation

leather It is, of course, also possible to sew leather. It may be necessary to use leather needles for hard leather. Sew a test piece first. Stitch length not too short.

Try using the presser foot with sliding rollers or Teflon base.

Automatic Long Stitch / Basting Device

The switch for automatic long stitch has 3 positions.

1 1

Automatic long stitch and basting device are disconnected. Machine sews normally.



Automatic long stitch is switched on



Basting device is switched on

Automatic long stitch

Penetrate needle; switch on automatic long stitch device. With the automatic long stitch switched on, the machine sews every alternate stitch. Longest stitch: 8 mm. The long stitches can be sewn at all 5 needle positions.

Presser foot:	000	
Thread:	sewing thread	
Needle:	80	
Stitch selection:	selector lever	0
	changeover lever	0
Stitch width:	0	
Stitch length:	2-4	
Needle position:	all positions	
Feed-dog:	sewing	
Colour mark:		

Decorative seams with buttonhole thread (cordonnet)

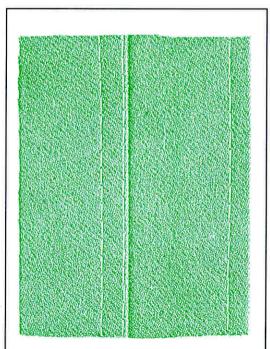
 a) Buttonhole thread as upper thread

General rule: Needle No. 110 or 120

It is perfectly possible that a needle No. 100 will be satisfactory for certain types of material. Do a test piece of sewing. b) Buttonhole thread as lower thread.

If the thick needle is unsuitable for the material, the buttonhole thread must be sewn as lower thread. In this case, sewing must be on the back of the material. If the sewing line is not visible, e.g. when sewing on

pockets, it is first basted with darning thread. Use contrasting colour. The basting seam indicates the sewing line on the back and is easily removed at the end.



Basting device

Presser foot:	000	
Thread:	sewing thr./basting thr.	
Needle:	80	
Stitch selection:	selector lever 0	
	changeover lever 0	
Stitch width:	0	
Stitch length:	11/2-4	
Needle position:	all positions	
Feed-dog:	sewing	
Colour mark:		

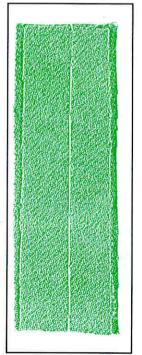
With the basting device switched on, the machine sews every 6th stitch. This produces long basting stitches (longest stitch 2.4 cm). Select desired

basting stitch length with

the normal stitch length control. The basting stitches can be sewn in all needle positions. To secure beginning of seam sew several stitches, then penetrate needle into the material

long stitch device.
To secure end of seam switch off automatic long stitch device and sew several stitches.

and switch on automatic



Blind Hemming

Presser foot:	016	
Thread:	sewing thr./darning thr.	
Needle:	80-70	
Stitch selection:	selector lever	2
	changeover lever	1-20
Stitch width:	2½ approx.	
Stitch length:	2-21/2	
Needle position:	right	
Feed-dog:	sewing	
Colour mark:		

Important

As for sewing by hand, a fine material requires a fine needle and fine thread.

This work is best sewn at a slow speed.

Preparation

The hem should be prepared as for sewing by hand: oversew raw edge, baste and press.

Placing the hem How the work is placed beneath the foot (see Fig. 1).

Trial sewing (on a material remnant or directly on hem) It is recommended to sew a trial piece owing to the varying material thicknesses; the needle should only prick the edge of the material, as when sewing by hand.

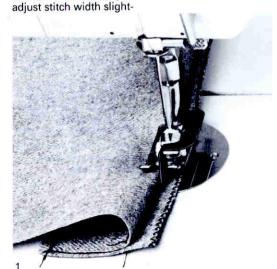
Basic setting is always stitch width 2½. The different thicknesses of ma-

terial may require a small adjustment.
Trial:

Sew slowly, until the needle swings to the left side. Using the hand-

wheel guide the needle until it just touches the fold and check that it just catches it. If necessary, needle is too far over fold and wider if it is missing the fold. Check the next left swinging stitch in the same way. Then sew approx. 10 cm and check again.

ly: making it narrower if



Guiding the work
Guide the hem into the
foot as shown in Fig. 2.
Tip: Hold the work lightly
ensuring the fold is
always kept against the
guide.



