BERNINA®



BERNINA® 1001 Electronic

Instruction Manual



IMPORTANT SAFETY INSTRUCTIONS

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

Read all instructions before using this sewing machine.

DANGER

To reduce the risk of electric shock:

- An appliance should never be left unattorded when plugged in.
- Always unplug this appliance from the electric outlet immediately after using and before cleaning.
- Always unplug before relamping. Replace bulb with same type rated 15 Wats.

WARNING

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

- Do not allow to be used as a toy. Close attention is necessary when this appliance is used by or near children.
- Use this appliance only for its intended use as describaid in this manualities only attachments recommended by the manufacturer as contained in this manual.
- Never operate this appliance if it has a demaged cont or plug. If it is not working properly, if it has been dropped or damaged, or dropped into water, Return the appliance to the nearest authorized design or pervice certer for examination, ropes, electrical or mechanical adjustment.
- Never operate the appliance with any air openings blocied. Keep ventilation openings of the sewing machine and look controller free from accumulation of lint, dust, and loose door.
- Keep Ingers away from all moving parts. Special care is required around the sewing machine needle.
- Always use the proper needle plate. The wrong plate can cause the needle to break.
- Do not use bent needles.
- Do not pull or push fabric while ettching it may defect the needle causing it to break.
- Switch the sawing machine off ______ whon making any adjustments in the needle area, such as threading needle, changing needle, threading bottoin, or changing presser foot, and the ble.
- Always unplug sewing mechine from the electrical outlet when removing covers, lubricaling, or when making any other user servicing adjustments mentioned in the matricition manual.
- Never drop or insert any object into any opening.
- 12. Do not use outdoors.
- Do not operate where serosol (spms) products are being used or where oxygen is being administered.
- To disconnect, turn all controls to the off position, then remove plug from outlet.
- Do not unplug by pulling on cord. To unplug, greep the plug, not the cord.

GROUNDING INSTRUCTIONS (for U.S.A. only)

This product must be grounded in the event of malfunction or breakdown, grounding provides a path of least resistance for electric current to radiuse the risk of electric shock. This product is equipped with a cord having an equipment grounding conductor and a grounding plug. The plug must be plugged into an appropriate outer that is properly installed and grounded in accordance with all local codes and ordinances.

DANGER

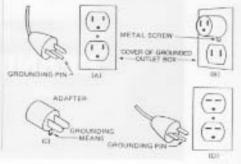
Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yallow stripes is the equipment-grounding conductor. If repair or replacement of the cord of plug is necessary, do not connect the equipment-grounding conductor to a live forminal.

Check with a qualified electricism or servicemen if the grounding instructions are not completely understood, or if in doubt as to whether the product is properly grounded.

Do not modify the plug provided with the product - if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

This product is for use on a nominal 120V circuit, and has a grounding plug that kooks like the plug illustrated in sketch A. A temporary adaptor, which looks like the adaptor illustrated in sketches B and C, may be used to connect this plug to a 2-pole receptable as shown in sketch B if a property grounded outlet is not available. The temporary adaptor should be used only until a property grounded outlet can be installed by a qualified electrician. The green courset rigid eat, up, and the tile, extending from the adaptor must be connected to a permanent ground such as property grounded outlet box cover. Whenever the edaptor is used, it must be held in place by the motal screw.

GROUNDING METHODS



SAVE THESE INSTRUCTIONS

Setting up the sewing machine	
Presser feet Practical stitches Practical sewing	13
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Dear BERNINA Gustomer

Congratulations on chaosing a BERNINA 1001, You are now the proud owner of a sewing machine which fulfile every expectation in terms of use and quality. You own a first class product which will give you sewing pleasure for many years to come.

Some hundred years ago, my great grandlather invented the first ever hematics machine. This was the beginning of the SERNINA family business and I am proud to be the fourth generation member of the family to have responsibility for the company. I am delighted to welcome you to the millions of satisfied BERNINA owners around the world.

If you require any further information about your sewing machine or sewing in general, please do not heistate to contact your RERININA dealer, who will be delighted to help you.

I with you very happy and successful sewing.

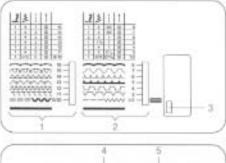
Yours truly,

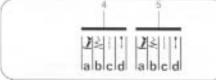
President

Hanapater Uetschi

BERNINA°

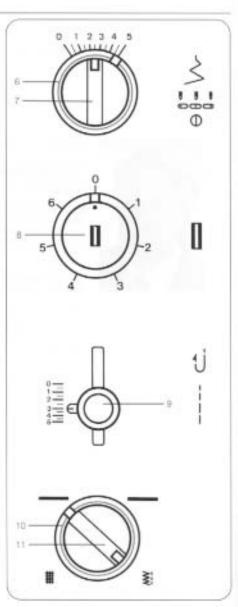
Display/Control panel





- 1 Red stitch programme
- Green stitch programme
 Selector lever
- 4. Basic setting panet red stitches
 - a. Presser foot
 - b. Stitch width
 - c. Stitch length
- d. Needle position
- 5 Basic setting panel, green strickes
 - is, Presser foot

 - Stitch width
 Etitch length
 - d. Needle position
- 6. Stich width knob
- 7 Needle position knob B. Butonhole knob
- 9 Sitch length knob
- 10 RED GREEN stitch programme selector knob
- 11 Feed-dog knob



Details of machine

- 1 Hinged hont cover
- 2 Stitch plate
- 3 Presser look
- 4. Needle clamp
- 5 Thread regulator
- 6 Thread take-up lever
- 7 Pro-tonsion stud
- 8 Thread tension slot 9 Thread tension
- adjustment knob
- 10 Red stitches
- 11 Green stitches
- 12 Selector lever
- 13 Bobbin spindle
- 14 Bobbin winder stop 15 Handwheel
- 16. Stitch width knob.
- 17 Needle position knob
- 18 Buttonhole knob
- 19 Power/light switch
- 20 Stitch length knob
- 21 Securing pins for sewing table
- 22 Stich programme color indicator IRED - GREENI
- 23 Combined mains/lock control socket
- 24 Stitch programme selector knob
- 25 Sewing/Daming
- selector knoto 26 Presser tool lever
- 27 Carrying handle
- 28 Thread guide 29 Thread holder pins
- 30 Supplementary thread guide
- 31 Thread cutter





Setting up the sewing machine

Cover, accessories



Cover, accessories

The cover protects the machine from dust and dirt.

The outside pocket provides storage for the instruction manual, foot control and cable.

The machine is very easy to carry with the practical, retractable handle.

Standard accessories

6 bookies
Necdo assistment
Seam ripper
Smalt acrewdriver
Special screwdriver
Bulb holder
Cleaning brush
Oiter, filled
Reverse pattern but
Overlock bot
Bird statut foot
Bullorihole bot
Zip loor



Accessories box

The accessories are neatly stored in the accessories box (Fig. 2).

Fitting the accessories box onto the machine

The accessories box has two fixing lugs that fit into the base plate of the mechine.

Lay the accessories box onto the base plate from the nor and press against the fixed some until the fixed kids engage in the face pro-

Removing the accessories box

Simply push this accessories box backwards (Fig. 3).





Mains cable, foot control unit, sewing light, power switch



Connecting mains cable and foot control unit

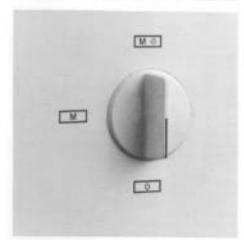
Plug the specially combried mains/loct control cable into the machine. Plug the foot control cable into the foot control and the machine cable into the mains socker.



Foot control unit.

This is used to regulate the sewing speed.

The sawing speed can be controlled from virtually 0 to maximum speed by varying the pressure on the plate of the foot control unit.



Power switch sewing light

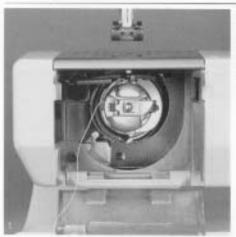
The power switch below the handwheel has 3 positions:

Off The machine is switched off.

On The machine is switched on.

The machine and sewing light are switched on.

Bobbin case and bobbin, winding lower thread



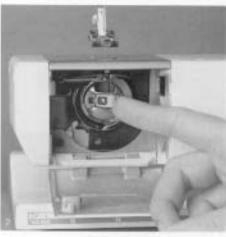
Removing the bobbin case

Set the power switch to the _R_ position.

Check that the needle is raised Open the hinged from cover on the hoc arm (Fig. 1).

WARNING:

Please refer to the safety instructions.



With the index finger and thumb of the right hand, pull the bobbin case latch lorward and remove the bobbin case (Fig. 2).

Winding lower thread

Holding the handwheel with the kell hand, turn the handwhost release forward with the right hand. The sewing reachine is now disengaged (Fig. 3). Place empty babbin on the sondle end press it to the right against the bobbin winder stop. The bobbin winder is now engaged.

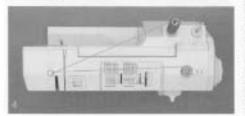
Take thread from the real of throad on the thread holder pin and pass it clockwise around the pre-tensor stud to the empty bobbin. Wind around the empty bobbin several times, again in a clockwise direction (Fig. 4).

Phesis on the foot control to start the motor. When the bobbin is full the boobin wholer will stop automatically, Push-bobbin to left and remove.



When removing the bootsin, cut the thread by putting it to the laft against the bootsin winder stop (Fig. 5).





Inserting the bobbin



Inserting the bobbin

Hold the boldom case in the left hand, Insert the boldom with the thread running in a clockwise direction, see arrow.



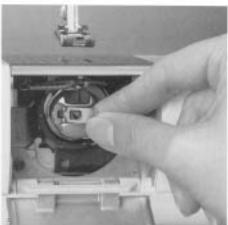
Take the thread anticlockwise to the slot.



Pull the thread into the slot and under the spring, until it lies in the T-shaped slot at the end of the spring.



When the end of the thread is pulled, the hobbin should turn clockwise, in the direction of the arrow.



Inserting the bobbin case

Make sure that the needle is fully raised when inserting or removing the bobbin case. Hold the bobbin case as in fig. 5 and insert.

Threading the upper thread



Thread the upper thread

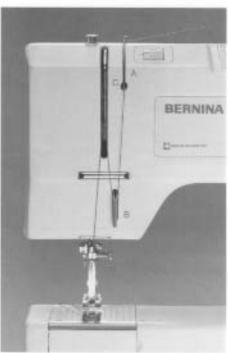
Ohecs that the needle is in the raised position. Raise the presser loot.

Place the reel of thread on one of the two thread holder ones.

Firmly clip the thread into the thread guide on the top of the machine. Then pull it through the long slot (A) into the thread tension.

WARNING:

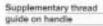
Please refer to the safety instructions.



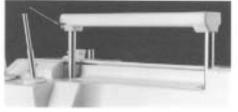
On the front of the machine, take the thread from the side. So downwards under the thread regulator 8, then up to the thread take-up lever at the top (0 and down again to the needle holder thread guide (b).

Always thread the needle from front to back.

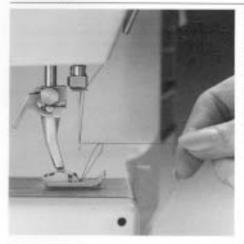
The small white plate on the front of the pressor foot shank helps when threading the needle eye. Put the thread approx. 30 cm (4") brough the needle eye.



Sewing with cross-wound reels, metal and salver thread, double or triple needles. For perfect thread feed, take the thread through the special supplementary thread guide on the hendle.



Bringing up the lower thread, thread tension, feed-dog



Bringing up the lower thread

Hold the upper thread loosely. Turn the handwheel towards you until the thread take up lover is fully raised.

Pull the upper thread so that the lower thread is brought up through the state plate hole. Take both threads through the slot in the presser foot and place to the side.



Thread tension

Normal tension is set when the red mark on the regulating dial matches the adjacent mark on the machine.

The thread tension should be adjusted for special sewing, e.g. buttonholes. Turning the regulating dial forwards to number 4 or below gives a looser upper thread tension.

Furning the regulating dial backwards to number 6 or above gives a tighter upper thread tension.

Do not larget: The thread tension should be reset to normal when special sowing has been completed.



Lowering the feed-dog

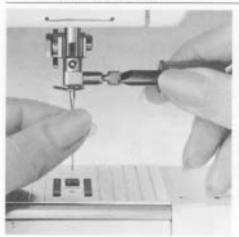
For cartain types of sewing, in.g. daming, the fabric must not be moved by the faed. Therefore the feed dog must be lowered by turning the knob to the left until the mark points to the symbol matter.



To remove the work, raise the presser loot, pull work out to the rear left and hook both direads into the thread outsit.

The throad ends free themselves when you stan sewing again.

Inserting the needle changing presser feet



Inserting the needle

The small black screwdriver for loosening or signering the needle clamp is provided in the accessories box.

Set the power switch to

Check that the needle is in the raised position. If not, burn the handwheel. Loseen the needle clamp solve by half a turn (anti-clockwaii) and remove the needle (Fig. 1), hasn't a NEW needle – flat side to the neet.

Insert the needle until it reaches the top. If the needle is not inserted fully, i.e. is set too low, skipped strikes will result. Tighten the needle clamp is new securely.

WARNING:

Please refer to the safety instructions.



Changing presser feet

See page 14 for the various presser feet and their uses.

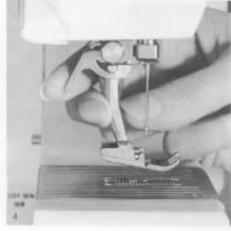
The success of a piece of sawing depends largely on the correct choice of presser loot. Changing the presser feet is easy and practical.

Turn the handwheel towards you until needle is fully raised.

Fisite the presser foot (Fig. 7). Raise the clamping lever with the index linger of the right hand and using the middle tinger and thumb, remove the presser tool (Fig. 3).

To attach the presser foot: The procedure is the same but press the clamping lover downwards with the index finger (Fig. 4),





Sewing tips



A few hints

Set your BERNINA for enough eway from the table adga. Correct alting position and correct guiding of the work will make sewing easier. Skinght in front of the needle, i.e. in front of the working area. This will enable you to weed the working area without strain. Ensure that the haight of

your chair allows you to work comfortably. It is best to guide the work from the side with the lingers of the left hand close to the presser foot. When sewing delicate work, it is preferable to stop and guide if a little at a smarisher than left the work slide beneath the fingers.



To remove the work, raise the presser foot and chack that the needle is taised. If not, turn the handwheel. Take work out to the read left and hook both threads into the culter. The thread code froe themselves when you start sewing again.

Threads and needles

Needle table

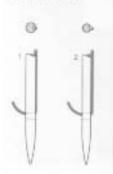
Needle and sewing machine

Your BERNINA has needle system 130/705H. Make sure when buying new needles that they are the 130/705H system. Commercially available needle sizes are not 70 to 12X. The finar the needle, the lower the number. The opposite applies to thread. The finar the thissed, the higher the number.

Needle and thread

The needle size required dispands on the finesid selected. The needle must match the thread.

When sewing, the thread lies in the long groove to the tent of the needle (Fig. 1). If the needle is too fine, the thread will not fit into the groove (Fig. 2) and skepped statches will result.



Needle and fabric Condition of needle

The needle must be in perfect condition. Sewing problems are caused by: A. both needles

B. blunt needles C. hooked tips





Standard needles

130/705H Normal point, slightly rounded



All purpose needle for woven synthetic and natural fores, line times, chiffon, batake, organide, woot velvet deconstive seams and emboodery.

Special needles

100/705 SES Fine ball point Fine krits, also specially suitable for synthetics

190/705H-SUK Mediam bell point

Heavier synthetic or natural fibre knits

130/705 H-Stretch Medium ball-point

Special needle for delicate or difficult shetch tabnos.

196/705H-J Extra fine point Twil, workwaar, heavy linen, denim, canvas. Penetrates dense fabrics more saally.

130/705 H LL or H LR Cutting point Leather, suede, celfskin, kid, pigakin, limitetion leathers and suedes, plastics, waxed labrics.

Needle/Thread Table

Neede	70	80	90	100	110
Darring thread	非	*			
Embroidery fivoad 30		*			
Mercensed cotton sawing throad		*	*		
Synthetic sewing thread		18	18		
Coarse mercerised cotton Mercerised synthetic			水	381	
Buttornole thread for top stitching (Cordocard)				3 2	非

This table allows clearly which needs suits which thread.

Feed-dog and fabric feed

Feed-dog and stitch length

With each start, the leaddog moves forward by one step.

The length of this step is governed by the stitch tongth selected. With an continuely short stitch length, the steps are adversely short. The table moves under the presser looks sunder the presser looks are summitted.

For example, buttonholds and satin stating are sawn with this short stati length.

2. Feed-dog and fabric feed

 a) The fixed-dog can only work effectively if the presser fool is horizontal.



3. Feed-dog and sewing corners

a)
The two rows of leeth of the leed-dog are quite a detance apart because of the width of the needle hole.



b) When sewing comers, only a small part of the tabric is on the feed-dog so it cannot transport the work correctly.



Important

a) Make sure that the labric leeds evenly!



If the presser fact is filted, e.g. at a very thick seam or have the feed dog will be unable to grip the tabric. The work will stick.



ti
if a folded piece of tabric is
placed against the corner,
the tend-dog will be able to
do its job properly.



b) Pulling or pushing will result in "geps".



c) Holding back will result in "pla-ups".



c)
Place a piece of fabric, noatly falced to the thickness of the seam, basics file sewing so that the present foot in level again.



Presser feet Practical stitches Practical sewing

Presser feet

Presser feet are an important sewing aid. They are designed with grooves and durdes.

grooves and guides. Successful sewing depends on the correct choice of present box.



Reverse pattern foot

Red and green practical stiches Embroidery stiches



Overlock foot

Vari-overlock seam Vari-overlock hem Oversowing seem edges



Buttonhole foot

Buttocholes



Zip foot

Sewing in aps Sowing dose along raised seam



Blind stitch foot.

Blind hemming Edge stitching

Range of applications

Green practical stitches















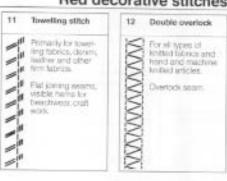


Range of applications

Red practical stitches Red decorative stitches

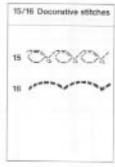




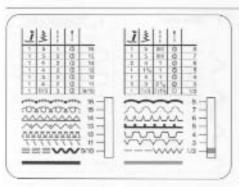








Needle positions



Presser loot:	and the second second
Thread:	according to fabric
Noedle:	according to thread
Stich:	***************************************
Stich width:	0
Stitch length:	1-5 according to fabric
Needle position:	centre
Feed-dog:	sowing
Colour indicator:	

Forward sewing

The machine sows forwards with the settings specified and with the selected stitch length.

The strich length is selected according to the type of sewing and fabric.

Reverse sewing

Push the stitch length knobuowards above 0 and holduntil reverse sawing is completed.

When the knot is released again, the machine will again sew forwards with the previously selected stich.



Securing ends

At the beginning and end of a seam, sew in reverse for approx, 1 cm (%") and then forwards again.

Securing thick seams

When changing from toward to reserve sewing and wice-verse, stop the machine. The needle should be raised. If not turn the handwheel lorwards. This prevents the needle from being bant by thick fabrics.



Stitch width Needle position



Buttonhole



Stitch length Normal stitch length is approx. 2



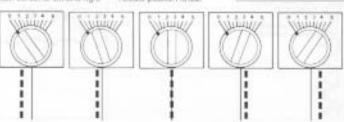
Colour indicator

Feed-dog

Five needle positions

The position of the stitch can be set to left and right

in five positions with the needle position knob.



For normal sewing, the needle is in the centre.

Examples of use:

Skind hemri	tiriri.	Plante 2
Edge stitchi	na -	Page 2
Sewent in a		Page 5

Satin stitch

Setting zig-zag

Presser foot:	1
Thread:	according to fabric
Noedle:	according to thread
Stick:	//////////////////////////////////////
Stitch width:	1-5
Stitch length:	1-5
Needle position:	centre
Feed-dog:	sewing
Colour indicator:	

tabrica.

Needle:

Stitch width:

Stab length:

Oversewing edges Presser foot Thread

Generally, the zap-zap should not be too wide or the stack length too long. Start by cutting a need edge. Use as fine a thread as possible, especially on final

Guide the eage of the tabno to the centre of the look so that the needle goes afternativy into the fabric and then over the edge.



darting or sewing throad

21s-5 (according to fabric)

1-2 (according to labric)

80-70

Setting zig-zag width and length

The stitch width and length can be altered during sewing or while the machine is stopped.

Set the width of the zig-zing stitch with the stitch width knob, it is infinitely variable. up to 5 mm.

The needle must not be left in the work when the machine is stopped.



Stich width

Satin stitch = close zig-zag = IIII

1 (64)
embroidery freed No. 30
80
116-5
IIII (satin attch density)

Additional accessory

Set stitch length to very close zig-zag = IIII

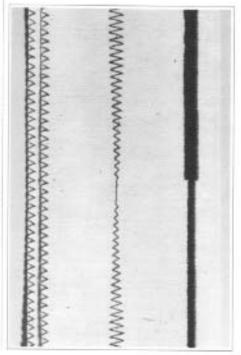
Turn stitch length knot to the right until it locks.

The mark on the knob is at the top. Stich length is now 0.

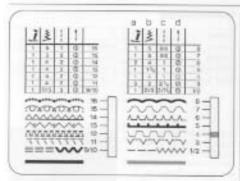


By rotating half a turn to the left (mark at the bottom) the basic setting for sixtin stitch. is obtained = IIII.

Adjust the stitch density. from the basic setting according to the work. Turn anti-clockwise for thicker fabric, diodewise for finer fabric.



Selecting green stitches



- a Presser foot
- p Stitch width
- a Stich length
- d Needle position

Push the selector lever to the right to disengage and select a stitch from 1–6.

Set the colour indicator to green.

The number for the basic setting is the same as the number of the stitch selected.

Each slitch has many different applications. The stitch width and length can be adjusted to the type of work and fabric.

The presser foot display recommends the appropriare lost for easy work and perfect results.

Universal stitch

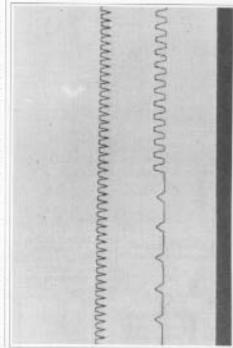
Presser toot:	1
Stitch	TATALANA TATALA
Stitch width:	4
Stitch length:	1
Needle position:	centre
Feed-dog	sewing
Colour indicator	-

Blind stitch

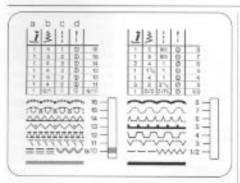
Presset foot:	5
Stich:	VVVVVV
Stich width:	3
Stitch length:	24
Needle position.	right
Feed-dog:	Bewing
Colour indicator:	

Vari-overlock

Presser foot:	2
Stich:	AAAAAAAAAAAAA
Strich width	4
Strich length:	1
Needle position:	right
Feed-dog:	sewing
Colour indicator:	



Selecting red stitches



- a Presser foot
- b Stich width
- c. Stitch length
- d Needle postion

Push the selector lever to the right to disengage and select a stitch from 9 - 16.

Set the colour indicator to red.

The number for the basic setting is the same as the number of the stitch selected.

Each stitch has many different applications. The stitch width and length can be adjusted to the type of work and fabric.

The presser foot display recommends the appropriate foot for easy work and perfect mouts.

Triple zig-zag

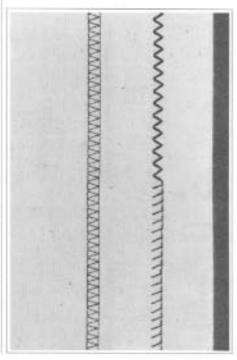
Presser foot:	1
Stich	\^\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Sitch width:	5
Stich length:	3
Needle position:	centre
Feed-dog:	sewing
Colour indicator:	and the same of th

Towelling stitch

Presser foot	the compare of the
Sinch	111111111111
Sitch width:	4
Strich length:	2
Needle position:	centra
Feed-dog:	sawing
Colour indicator:	

Double overlock

Presser foot:	1
Stich:	933000000000000000000000000000000000000
Stitch width:	5
Stitch length:	2
Needle position:	centre
Feed-dog:	sewing
Colour indicator:	



Sewing knitted fabrics

Zips

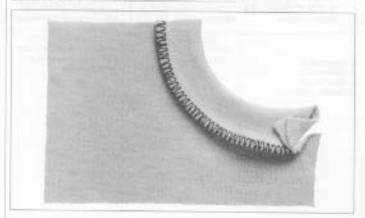
e.g. Interlock, jersey

When sewing knifted fabrics, the following points generally apply:

- Use a perfect needle.
 Even a very slightly blunt needle will damage the knit, causing if to lacker.
- Use fine sewing throad, particularly for fine jerseys.
 Coarse thread can also damage the krit.
- Use daming thread for basting. After the seem has been sewn, daming thread is more easily removed than the considerably thicker and shorter flow basting thread.
- Press each seem as it is sown. This will make subseouent work caser.
- F. Sew a sample to test the stretch of the stitch. The seam should be as stretchy as the lathic, As modern incline vary considerably in their elacticity, the basic selfting of the practical stitches can be adjusted where necessary to suit the fabric. Use a slightly longer stitch length for sewing lints.

Neckband with overlock seam	For all jurgeys
Presser foor:	2
Thread:	sewing freed
Needle:	80
SNuh	AAAAAAAAAAA
Stich width:	4-5
Sitch length:	1
Needle postor:	right
Feed dog:	sewing
Colour indicator	- Indiana - Indi

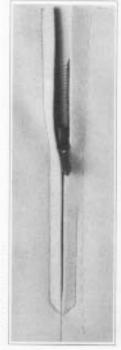
Fold the nearly cut neckband in half and press. Fin and bester to the night side of the neckline with the cut adges of the band exactly in the with the neckline exige. When setwing, guide the exiges to the pin of the overlook box.



Sewing in zipe

Zip fastener inserted flat

Presser foot:	4
Tread:	sowing fivesti
Needle	80
Stich	
Shich width:	0
Stitch length:	врогох 2
Needle poston:	leth/right
Feed-dog:	sowing
Colour indicator:	



Preparation:

Basta entire length of seum. Mark length of zip and sew seem as far as the zur opening. Remove basting stitches, except in the apsection. Press the ontire seam, frim and oversew. Remove remaining basting offiches. Basto the zio into poetion so that the teeth are covered by the labra. Saw in the aip, starting each side at the bottom and sewing to the top, once with needle position right and once with needle position left.

Practical stitch hems

Preparation:

Baste the frem - depth of nem plus from (%") - mark the desired width, sew and cut off surplus tabric.

Visible hem with Vari-overlock

Phisaer foot:	2
Throad:	sewing thread
Needle:	80
Stitch	AAAAAAAAAAAAA
Stick width:	4
Stich length:	approx.1
Needle position:	ron
Feed-dog:	sewing
Colourineteator	

Stretchy visible hem for all stretch knits, towelling, Helanca, etc.

Visible hem with Triple zig-zag

Presser tool:	1
Threatd:	sewing thread
Needle:	80
Stitch:	MANAMANA
Stich width:	21s - 5 according to fetric
Stitch length:	2-3
Noodki position:	pentre
Feed-dog:	sewing
Colour indicator	

Hard-wearing hem for closely woven labrics, denim, etc.

Visible hem with Universal stitch

Presser fact	1
Thmad:	sewing thread
Needle:	80
Stoch:	WWWWW
Stich width:	approx.4
Stock length:	94-1
Needle position:	centre
Feed dog:	BeWITD
Colour indicator:	And the last of th

Shotchy bern for Lycne, firm sints and woven tabrics. Flat joining seam for beachweer, craft work etc.







Practical stitch seams

There are two types of seem

Open seams

These are seams which are pressed open

- they lie flat and are not bulley
- they allow garments to be ellout

Overlock seams

These and seems that are sewn and oversewn in one operation

- they are quick to sew
- they are narrow, but do not allow garments to be let out.

Flat joining seams

These are seams in which the out edges are overapped and then oversewn

- they lie fat.
- Trey are narrow and cannot be let out
- they do not ourland the edges are nece

Triple straight stitch seam open seam

Hard-wearing seam for firm tabrics.

Especially for donim. condumy.

Presser foot:	1
Thread	sewing thread
Needin:	80-90
Slitch:	***************************************
Stich width:	0
Stich length:	3
Noedle poston:	pentre
Food-dog	stewing
Colour indicator:	

Zig-zag seam

open seam

Stretchy seam for lersey fabrics in wool, synthetic or blended fibres, and for sile. cotion and wool interiors.

Suitable for sweators, jackets and all hand and machine kniffed garments.

Pressar foot:	0
Thread:	sewing thread
Needle:	80
Stitch	WWW.WWW.
Stilch width:	
Stich length:	116
Needle poerlien:	pentra
Feed-dog:	SOWING
Colour indicator:	



open seam

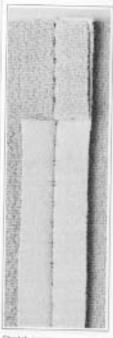
Very stretchy seam for stretch labrics, especially tor aportswear of all lands.

Suitable ziso for loungeweer and craft work.

Presser foot:	0
Thread:	sewing thread
Noodle:	80
Stich:	Fredhald New World St.
Stitch width	1%
Stitch length:	74-1
Needle position:	contre
Feed-dog:	sowing
Colour Indicator:	The state of the s



Zig-zag seam.



Stretch seam



Triple straight eitich seam

Practical stitch seams

Vari-overlock seam

Stretchy overlock seam for dresses, blauses, underwear, nightwear, etc... all line jersey labrics,

Presser foot:	2
Stricts:	
Stitch width:	4
Stron length:	1
Needle postion:	right
Feed-dog:	sewing
Course appropries	Annual Control of the

Double-overlock seam

Stretchy overlock seam for jersey fabrics all thicker or loosely knitted

Presser loot:	10
Stitch:	77070707070707070707070
Stich width:	5
Stich length	2
Needle position:	centre
Feed-dog:	sewing
Colour indicator:	-

Reinforced overlock seam

Stratistry eventions seam for casual wear, crafts, etc... sweatshirts, sportswear and

Presser foot:	1
Stich	000000000000000000000000000000000000000
Stilch width:	4-5
Stitch length:	2
Needle position:	pentre
Feed-dog:	pewing
Colour indicator:	

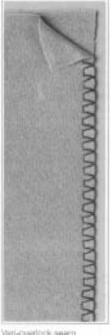
Flot seam

Visible seem for towelling wear. crafts, etc. telt, leather, denim, casual

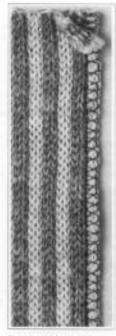
Presser toot:	1
Stut	**************************************
Sitch width:	4
Stich length:	2
Needle postion:	centre
Feed-dog:	sewing
Colour indicator:	

Reminder

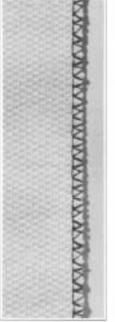
For sewing knitted fabrics see Page 20.



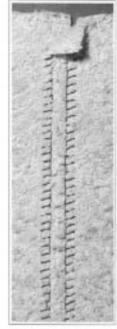




Double overlock seam



Reinforced overloak seam



Flat seem

Blind hemming

5
sewing/daming thread
H0-70
VVVVV
арриж 3
2'4
nonthalt right
sewing

Sewing table/special accessory

Important

As with hand sewing, line labrics require a fine needle. and fine thread.

Preparation

The bern should beprepared in the same way. as for sewing by hand. Overnow now edge, baste and press.

Positioning the hem

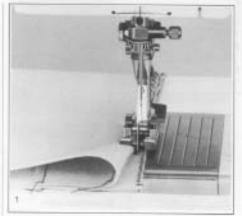
The hom is positioned under the foot as shown in Fig.1.

Sewing test

(Ether on a ramnant of fabric or directly on the Given the variations in tabric thickness, it is advisable to sew a test piece first. As when sewing by hand, the needle should only catch the told of the fabric. Because of these variations, a slight adjustment may be DOCESSARY. Saw slowly until the needle swings to the left. Using the

handwheel, bring the needie down until it is just about to enter the fabric. and check that it is only just catching the labric, if necessary, adjust the stich width slightly. Namower if the needle is going in too far and a little

wider fit is falling to catch sufficiently. Check the next zig-zag stich in the same way. Then sew for approximately 10 cm (4") and check again.





Guiding the work

in this way, you can check that the bern is running streight.

Tip: While sewing hold the underlabric back slightly. (54.2):



Edge stitching using the needle positions

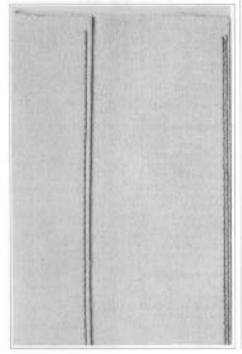
Edge attohing on collars, cufs, lepels, hemis, etc.

Presser foot:	5
Thread:	sowing throad
Needle:	80
Stich:	
Stitch width:	0
Stich length:	2-5 (as required)
Needle postion:	let/hef et
Food-dog:	sewing
Colour indicator:	

Sewing table/additional accessory

Place the edge of the labric from the left against the guide of the Blind stroth foot. (Fig. 1). Set the needle postion to left or half left.





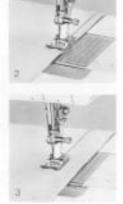
Top stitching, for edges of all kinds.

Presser bot:	1
Thread:	sewing thread
Needle:	80
Stich	
Stitch width:	0.
Stitch length:	2-5 (as required)
Needle position:	eny position
Feed-dog	sewing
Colour indicator:	

Guide the edge of the fabric to the edge of the presser loct or along the grooves in the stitch pilate.

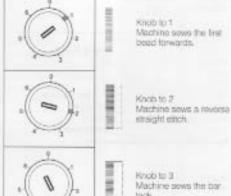
Widths:

heeds position centre)
Edge of pressor foot =
75 mm (hir"), (Fig. 2)
Grooves in stich plate:
Line 1 = 1 cm (hir")
Line 2 = 1.5 cm (hir")
Line 3 = 2 cm (hir")
Line 4 = 25 cm (hir")
Line 5 = 3 cm (hir")
It is also possible to sew intermediate widths using the left, half left, right and half right needs positions.



Buttonhole

Presser lock	3
Thread:	sawing/daming fivead
Needle:	80-70
Stitch:	^^^^^
SHah widh:	sel automatically
Stach length:	IIII (safin stitch)
Needle position:	ant automatically
Feed-dog:	sewing
Colour indicator:	



Knob to 1 Machine sews the Irel beed forwards. Knob to F



Knob to 3 Machine sews the bor tack.



Rivob to 0 Machine sews the 2nd bend forwards.



Knob to 5. Machine sews the ber



Knob to 6 Machine sews socuring stitches.



Sowing the buttonholes

For sawing butterholes, of thread tension to symbol ==



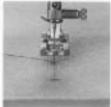
Set stitch length: Turn knob. to the right until it locks. The mark will be at the top. (Fig. 2), Strich langth is 0. By rotating half a turn to the left (mark at the bottom) the basic stitch length setting for buttonholes is obtained. Set the stitch density according to the fabric. Turn anti-clockwise for thicker labrics clockwise for finar labrics.

Always saw a trial buttonhole.



Reset knob to 1. The sewing sequence continues as described. For all other sewing, set knob to 0.





a bar tack



With gimp cord

Buttonhole with gimp cord

The gimp cord strengthere the buttonhole.

The gimp cord is especially important for all levited tabrics - including hand and machine knits - to prevent the bufforhole from pulling out of shape.

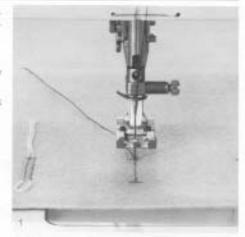
The thickness of the condidepends on the labric to be seen. Suitable conds are: perfe cord no. 8, thick hand sewing thread or fine conclusional sewing thread participations.

Lay the fabric under the loot so that the looked edge or seam like in front of the presser loot. The loop of the gmp will be at the end of the bullot finde where the bullot will pull (Fig. 1).



It is easer to position the cond if the needle is already in the fabric.

Using the handwheel, lower the needle and chack that it is in the centre of the presser foot if not turn the handwheel, Lower the needle into the tabric precisely at the start of the buttenhole. Do not lower the too tyst.



 Hook the gimp cord over the centre prong of the buttenhole foot and take both ends back under the foot (Fig. 2). Lower the foot and check that the cord is able to slide, is is not inapped by the host.



 Sew the buttonhole. At position 2 (reverse straight strict), the cord comes away than the prong of the foot. Therefore, it is advisable to hold the loop of grap down LIGHTLY with the stopp (Fig. 3).



Finally, pull the loop of gimp through. With knided to the fact with a coarse hand sewing needle (Fig. 4) and te or sew in securely. In woven fabrics, the gimp ends can be simply out of.



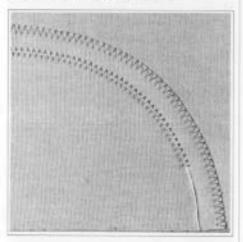


Mending interlock fabric

Mending woven fabric

Patching	
Presser toot:	1
Statute	^^^^
Stich width:	3-4
Stitch length:	approx. 1-1%
Needle position:	certire
Feed-dog:	gniwee
Colour indicator:	

Can also be sewn with the Universal stitch.



Cut out a patch, if possible from the sound part of a discarded similar garment. Where possible, round of the corners to preserve the elasticity in all directions. Pin on the patch and basis as close as possible to the edge. Then sew with 1–2 rows of zig-ray siton, possibly sewing in threat simultaneously.

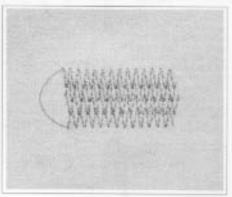
Finally, cut away tom/wompiece from behind patch.

For all limits, refer to the general instructions "Sewing knitted fabrics" on page 30.

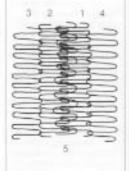


(Modern darring method) for tears and thin areas on virtually all labrics.

Presser foot:	0			
Thread	deming thread/Machine emb. 80			
Needle:	80-70			
Stich				
Etter widt:	5			
Stitch length:	III			
Needle position:	centre			
Feed-dog:	sewing			
Colour indicator:				



Always tay a fine fabric undermeath On tests, sew 31–5 rows of Running stitch, depending on the type of fabric (Fig. 1). On thin areas, saw sufficient adjacent rows to cover. Lot each row overlap the previous ond yeary alightly.



Troubleshooting Maintenance

Fault prevention

If the sewing machine does not sew properly, it is usually due to incorrect use.

Check whether:

- The upper and lower threads are correctly threaded:
- The needs has been correctly inserted with the flat side of the shank to the rear.
- The needle size is correct. See needle and thread table.
- The machine is clean.
 Brush away any throad.
- remnants.

 The hook race is clean and lubricated.
- Any remnants of throad are trapped between the thread tension disc and beneath the bobbin cass spring.

Upper thread breaks

- The upper thread tension is too tions.
- Poor quality needles.
 Ideally, needles should be purchased from a BERNINA dealer.
- The needle has been incorrectly inserted. The flat side of the shank must be to the rear.
- The needle is blure or bent.
- Poor quality thread.
 Incited or dried-out thread.
 Stitch plate or hook tip damaged. Take to a BERNINA dealer.

Needle breaks

- Needle clamp screw not sufficiently fightened.
- Fabric withdrawn for werds instead of backwards under the presser foot.
- When sewing over a thick area, the labric was pushed while needle still in the fabric.
- Poor quality thread, unevenly wound or knotted.

Machine fails to run

- Plug is not inserted properly.
- Power switch in
 position.
- Machine gummed up by use of unsubable oil.
 Machina will have to be desired by a BERNINA dealer.
- Machine has been standing in a cold room.

Lower thread breaks

- The lower thread lension is too sight.
- The bobbin is jamming in the bobbin case.
 Replace bootin.
- The note in the stach plate has been damaged by the reactle. This must be repolished by an expert.
- The needle is blunt or bent.

Faults in seams

- Remnants of thread between the thread tension discs.
- Remnants of firead under the bobbin case soring.
- Lower thread still threaded in the boobin case finder.
- tase finger,
 Threaded with foot down.
- Incorrectly threaded.
 Chack lower and upper threads.

Important

If you have to take your machine to a BERNINA. dealer, please always take the foot control unit and accessories.

Skipped stitches

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

Changing the bulb



WARNING:

Please refer to the safety instructions.

Sewing light: 220V/15 Watt

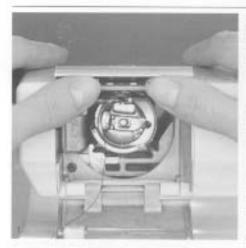
Changing the bulb

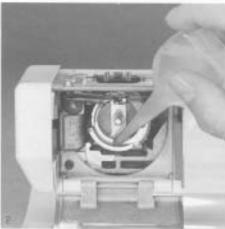
Disconnect the machine from the mains – take the plug out of socket.
Using the special butb holder, press the builb up, haist to the left and remove.

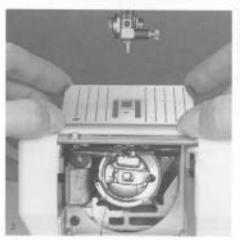


To insert new bulb: Place the new bulb on the bulb holder. Insert the bulb into the socket, press upwards and twest to the right as far as it will go.

Maintenance: Cleaning and oiling







If the machine is stored in a cold room, it should be brought to a warm room approximately one hour before use, to restore the oil in the assurings to a fauld start.

Cleaning and lubricating the hook

- Disconnect machine from the misns by removing the mains plug from the exclusion.
- Check that the needle is, raised.
- Remove pressor loof and needle,
- Open the hinged front cover on the free arm.
- Lower the food-dog by furning knob to symbol

1

- Using both thumbs, press the strick plate up and back.
- Take out the bripting case.
- Clean the feed-dog, underside of the stitch piete and hook.

2

- Lightly lubricate the hook, 1–2 drops.
- Replace the bobbin case.

 To nell the sitch plate, mand the sitch plate from the rear, push toward until d engages.

 Close the fringed cover on the free arm.

 Raise the feed-dog by furning knob to symbol

WARNING:

Plassa refer to the eafety instructions.

Bernina Publications

BERNINA publications

it is not possible to cover more than the basics of sawing in an instruction. manual However, the creative potential of your BERNINA sewing muchine and BERNETTE overlocker is enormous. To help you use your machines to the full BERNINA regularly publishes sowing literature which covers everything from simple techniques to advanced fashion projects. Your BERNINA Dealer will be delighted to give you more information.

Sowing Service Leaflets

Each issue of our Sewing Service Leaflets thesis with a particular sewing technique presented in Assy to follow steps. Success is guaranteed!

BERNINA

Creative Sewing

The BERNINA Creative Sewing magazine appears twice yearly Fastrion, "Couture Rapide", home decoration, sewing for teens and twens and cruft projects are all regular features of the magazine. Special sowing techniques which are featured in the newing projects are desorbed in detail in words and pictures. Unusual and imaginative ideas ani also included from enthusiastic sowers around the world. Read about new sewing. developments and trends in the confort of your own. home. The Creative Sewing magazine is a source of inspiration for all sewers. Ask your BERNINA Dealer and learn how to get the most out of your machines.

BERNINA Collection

These boolers dist with one persouler theme in all to versions, base into-musics, pattern suggestions, districtions with coloured flushelions and many tips and mote of the trace will turn you into a seeing pro-in to lime at all. They are sould two to three times a year, so be sure to ask your BERNINA Destar when the next one is expected.





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WARNING:

Before using your sewing machine, please read the Sality Instructions. Sollte diese Maschine in ein anderes Sprachgebiet verkauft werden, fordern Sie beim nationalen Importeur oder BERNINA Händler eine Bedienungsanleitung in der entsprechenden Sprache an.

If this machine has been purchased in a foreign country, please request an instruction manual in your own language from the national Importer or a BERNINA dealer.

Si cette machine est vendue dans une autre région linguistique, demandez à l'importateur national ou à l'agent BERNINA, un manuel d'instructions dans la langue correspondante.

In caso questa macchina fosse venduta in un territorio di lingua diversa si prega di richiedere il libretto d'istruzione nella lingua adeguata presso l'importatore nazionale oppure presso un rivenditore BERNINA.

Si esta máquina se vende en otra región lingüística entonces pida Vd. de su importador nacional o del representante BERNINA un manual de instrucciones en el idioma correspondiente.

Indien deze machine in een ander taalgebied werd gekocht, kunt u bij de nationale importeur of BERNINA vakhandelaar een handleiding in de overeenkomstige taal aanvragen.

Skulle denne maskine blive solgt i et andet sprogområde, bedes du henvende dig hos den nationale BERNINA-importør eller en BERNINA-forhandler, hvor du kan købe en brugsanvisning på det ønskede sprog.

Om den här maskinen har köpts i ett annat land, var vänlig beställ en instruktionsbok på Ditt eget språk från importören eller en BERNINAN-återförsäljare.

Er denne maskinen kjøpt i utlandet, kan instruksjonsbok bestilles på ditt eget språk fra BERNINA importøren eller nærmeste BERNINA forhandler.

Tarvittaessa voit tiedustella omakielistäsi käyttöohjekirjaa BERNINA-maahantuojalta tai jälleenmyyjältä.

Se esta máquina foi comprada num país estrangeiro, dever-se-à pedir o manual de instruções naquela lingua ao importador nacional ou ao fornecedor da BERNINA.

Αν η μηχανή εχει αγοραστεί σε μια ξενή χωρα, πορακάλω ζητήστε έναν οδήγο λειτουργίας στην δική σας γλώσσα από τον γενικό αντιπροσώπο της BERNINA η από τους πώλητες της BERNINA.

BERNINA