My Guide

840 841 842

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ping work without supervision and during servicing (cleaning). when changing the needle, presser foot, bobbin or needle plate, when stopdisconnected from the power supply by pulling out the plug from the socket source of danger (danger of injury to fingers). The sewing machine should be Please observe the sewing position while sewing. The moving needle is a

Model 840 Model 841 Zigzag sewing machine with built-in decorative, plain and utility stitches Zigzag sewing machine with plain and utility stitches

Model 842 Zigzag sewing machine

Dear Bernina Customer,

gratulate you on your choice and thank you for the confidence you have placed in us. You are now the fortunate owner of a new Bernina! We con-

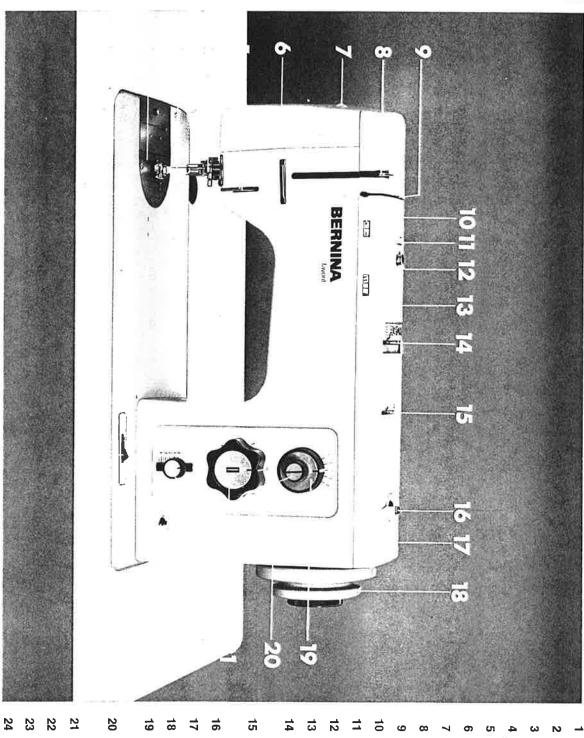
We hope that you will find it an invaluable aid to your sewing. the best use of your sewing machine in the years ahead. Giude» because we are convinced that it will enable you to make We have called this introductory Tuition Book «My Bernina

Bernina and by its extreme versatility. But only if you master the useful articles. pleasure of sewing, and creating for yourself attractive and techniques described in this book will you experience the true Very soon you will be thrilled by the easy operation of your

a very useful reference book that will serve you for a life-time. appropriate spaced printed in red, you will provide yourself with samples. If your glue your most successful samples in the the illustrations in this book carefully while practising individual We advise you, therefore, to follow the text and study

We wish you every success in your future sewing

Steckborn TG / Switzerland Fr. Gegauf Ltd., Manufacturer of Bernina Sewing Machines



- Base plate
- Needle-plate
- Presser-foot
- Needle-clamp
- Face-plate

Thread tension

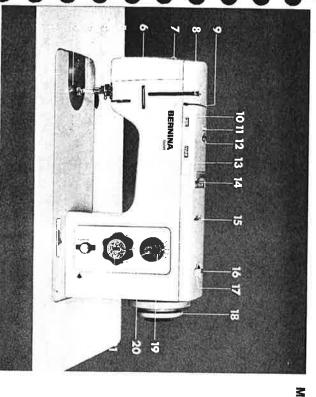
- Lamp switch
- Take-up lever
- Thread tension and thread guide
- Tension indicator window

Thread tension control wheel

- Winder pre-tension
- Selector lever for plain or ornamental stitch

Ornamental stitch indicator window

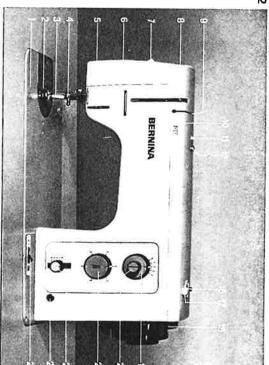
- On and off lever for automatic patterns
- Winder spindle
- Winder starting lever
- Handwheel
- Adjusting knob for straight stitch and zigzag
- Left-Center-Right adjusting knob (needle position)
- Knob for buttonhole sewing
- Stitch length adjustment
- Aperture for knee control lever
- Drop-feed control



Model 841

Model 842

The various parts of the machine



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- N Needle-plate
- Presser-foot
- Needle-clamp
- Thread tension
- Face-plate
- Lamp switch Take-up lever
- 6 Tension indicator window Thread tension and thread guide
- Thread tension control wheel
- 12 Winder pre-tension
- L Ornamental stitch indicator window 24 Drop-feed control

- 14 Selector lever for plain stitch
- On and off lever for automatic patterns
- Winder spindle
- 17 Winder starting lever
- 8 Handwheel
- 19 Adjusting knob for straight stitch and zigzag
- 20 Left-Center-Right adjusting knob (needle position)
- 2 Knob for bottonhole sewing
- 22 Stitch length adjustment
- Aperture for knee control lever

- Base plate
- Needle-plate
- Presser-foot
- Needle-clamp
- Thread tension

Face-plate

- Lamp switch
- Take-up lever
- Thread tension and thread guide 22
- Tension indicator window
- Thread tension control wheel

- Winder pre-tension
- 6 Winder spindle
- Winder starting lever
- 18 Handwheel
- Adjusting knob for straight stitch
- 20 Left-Center-Right adjusting knob (needle position)
- Knob for buttonhole sewing
- Stitch length adjustment
- Aperture for knee control lever
- 24 Drop-feed control

dicated on the machine plate with that Connecting up. Compare the voltage inof your main voltage.

to be connected to a power point. By pressing lightly on the foot control the Remove foot control from case and conmachine is set in motion. chine there remains only the flex plug When this plug is attached to the manect it to the machine. Foot control and lex are connected by a special plug.

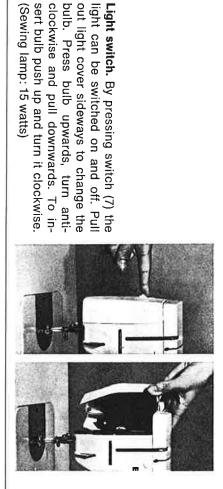
pulled when removing the special plug hand. Never lift the foot control by the Please ensure that the cable is not from the machine. Hold the plug in the



Removing the bobbin case

wheel towards you until the needle is at its highest position. Open stitch plate slide. Turn hand-

bobbin case is carried out in the same forefinger of the left hand and remove Open the hinged latch with thumb and manner. the bobbin case. The insertion of the



(Sewing lamp: 15 watts)

Needle and thread table





Darning thread (2 ply)

30 - 50

50

50 8

40

40

Mercerised sewing thread (3 ply)

Needle system 130

very fine 60

fine 70

medium 80

strong 90

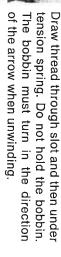
large 100

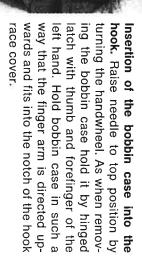
Needle and thread table

sure that the thread unwinds in the direction of the arrow.	When the bobbin is in the case make	Insertion of bobbin into the bobbin case.
---	-------------------------------------	---

Correct choice of needle and thread

sewing are 80, 90 and 100. For darning correspond with the sewing table given above. The usual needle numbers for Make sure that both, needle and thread Bernina machine class 840 (841/842). needle numbers 70 and 80. Use only needle system 130 for the





Check: Pull end of thread

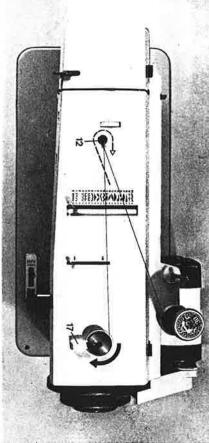


Winding of thread on bobbin

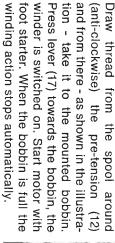
Loosen hand wheel: Hold hand wheel with the left hand. Loosen the hand wheel release with the right hand by turning anti-clockwise.



Inserting the needle. Loosen the needle clamp screw (# 4) half a turn. Push the needle upwards as far as it will go with the flat side of the needle to the rear. Tighten needle clamp screw.



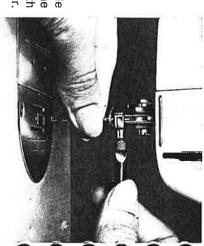
Threading the machine. The thread is guided from the spool to the needle in one movement. Presser foot and take-up lever must be in their highest position. Place spool on pin. Guide the thread with the left hand through the eyelet then pull it through the slot of the tension disc (# 9). With the right hand hold the spool steady.

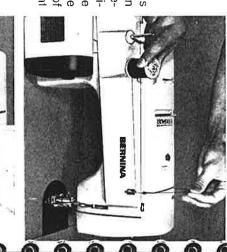


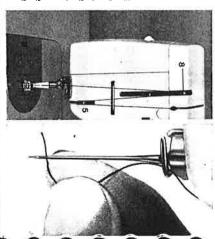


Now draw thread through the thread guide (5) up to the slot of the take up lever (8) and down to the needle eye. Thread the needle from the front to the back leaving a loose end of approximately 10 cm (4 ins.).

If the presser foot with the white plate is attached, threading through the needle is greatly simplified (see also page 9).





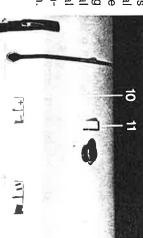


Thread tension

Changing the presser feet

The thread tension discs. Bernina has the unique advantage that during normal sewing the thread tension does not have to be altered. The tension centering wheel (11) can be regulated for special purposes. Four your guidance: Normal tension = Black line in center of window. + in center = Tighter tension.

— in center = Looser tension.



Use the correct presser foot for each type of work. Only in this way will you achieve easy and perfect work. The patented Bernina presser foot clamping lever permits quick and easy changes. The Bernina principle: "just clip it on!" the work is done in no time.

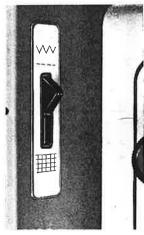




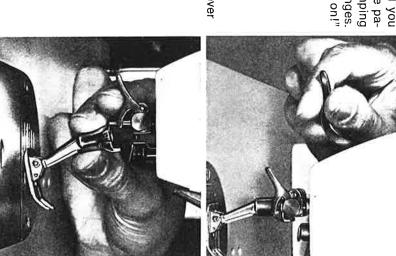
Loosen clamping lever and release presser foot



Darning. Changeover is made with knob (24) on the bed-plate. The feed-dog is lowered by pressing the rocker to the right (darn symbol).

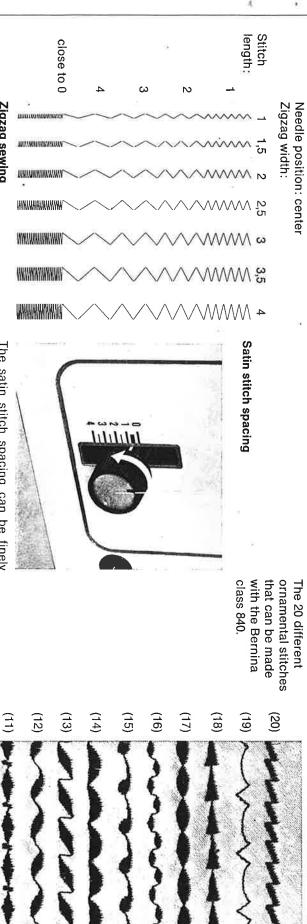


Fix the required presser foot on and push lever downwards. The presser foot is secured and the machine is ready for sewing. Only Bernina has this advantage.





Satin Stitch—Zigzag sewing



Zigzag sewing

Before starting to sew please always ensure that the marker of the buttonhole knob (21) is at position «0».

The line on the zigzag knob (19) allows the zigzag width to be read on the scale behind.

Setting the machine for the zigzag width: use knob 19. The pointer on zigzag knob (19) indicates the zigzag width on the dial behind. For Straight stitching the pointer on the knob is set to 0. Turning the knob to the right from 0—4 the width of the stitch will increase. The larger the number the wider the stitch. While sewing, the knob may be moved freely. But never turn the knob when the needle is still in the fabric.

Model 841

Universal stitch (3)

Stretch stitch (4)

Overlock (5)

Running stitch (2)

Blind stitch (1)

ထ

The satin stitch spacing can be finely adjusted with the stitch length adjusting knob (22).

(10)

Turn knob (22) clockwise to the right until it engages. Marking line on knob should be vertical (stitch length 0). The satin stitch spacing can then be finely adjusted — depending on material and thread — by turning knob (22) to the left.

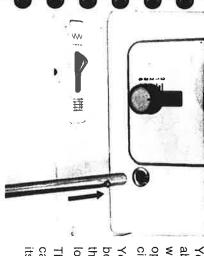
3

(8)

(9)

6)

Knee control / Lifter



Your Bernina machine has an attachable knee control lever. This knee lifter will be a welcome aid in many sewing operations. You will particularly appreciate this device for embroidery work.

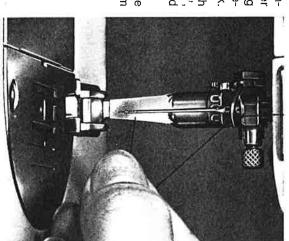
You can guide the work exactly with both hands since your "third hand", the knee, takes care of raising and lowering of the presser foot.

The knee lifter lever is secured in the case and can easily be removed from its clamp.

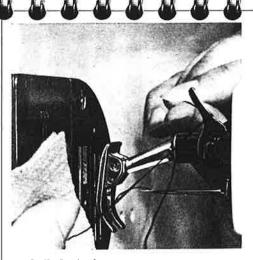
The presser foot is raised by pressing

to the right (in direction of arrow).

Inserting the knee lever

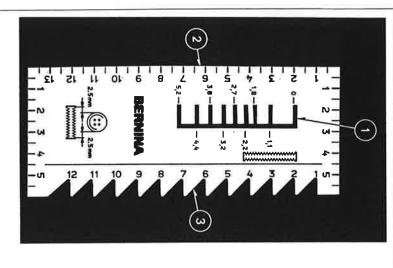


The presser foot with the white plate is a Bernina innovation. Set the needle with the handwheel high enough so that the eye of the needle is in front of the white surface. The eye becomes much more clearly visible and threading is thereby made considerably simpler.



Thread cutter. The lever on the presser foot bar is made in such a way that it can be used as a thread cutter. This small device helps to save time, especially when scissors are not close at hand.

Buttonhole gauge / Hem gauge

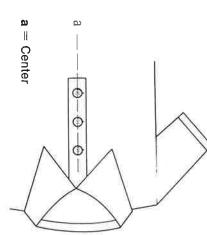


- Buttonhole gauge
- Ruler
- Hem gauge

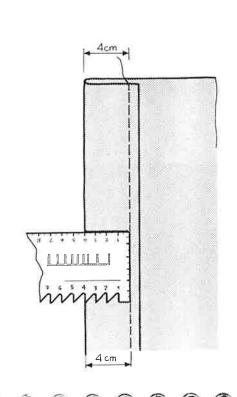
ruler, as a hem gauge, or as a gauge for marking the length of buttonholes. with the accessories can be used as a The plastic gauge which is enclosed

Marking of buttonholes BERNINA

b = Spacing from center line



Example: For buttons with a diameter of 2 cm (4/s") a buttonhole with a length of 2,2 cm (9/10") is marked. (For spherical buttons a little bit more.)

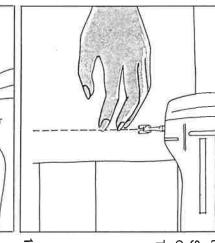


Marking the width of hems by means of the hem gauge.

Some technical hints

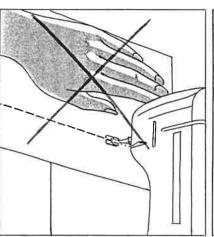
If you like to work as comfortably as possible we would advise you to observe the following points:

The basic rules are therefore:



only on how you guide the material. Sit exactly in front of the needle bar. The mastering of your sewing depends

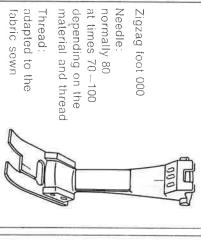
1. Guide the material as close as possible from the side, and near the presser foot

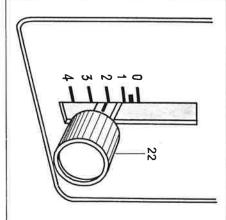


2. ... not from the front

3. ... and not with the hand flat. Nor must the material be pulled to the rear.

Straight stitching





22

center right

Straight stitch

left

Stitch width: (# 19) Stitch length: (# 22) Needle position: (#20) center Feed control: 1-4 ≶ 0

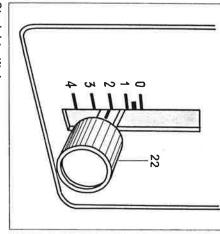
0 www (# 14) and www (# 15)

Automatic:

Normal stitch length: about 11/2-2 Set stitch length lever at desired length.



marked). Stitch length lever must be To sew reverse move stitch length lever (22) upwards (where no numbers are held by hand.



Securing in thick seams

(Stitch length not too short.)

For normal sewing the needle remains

buttonholes, blind hemming zippers, etc. needle can be set at right or at left for

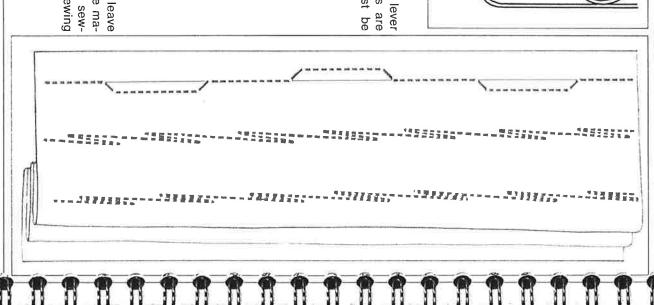
in the center.

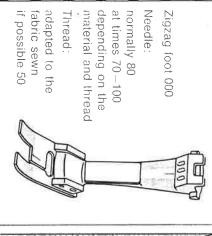
With the needle position knob 20 the

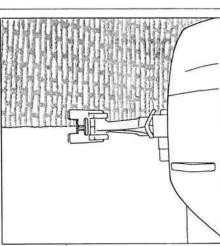
Needle position

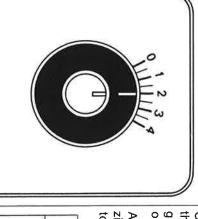
terial, then move lever to reverse sew-Before stitching in reverse always leave forward again. the needle completely down in the maing. The same applies when sewing

12



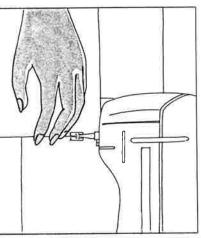






goes once into the material and once outside. the foot so that the needle actually Guide the cut edge under the center of

As a general rule the following is valid: zigzag not too wide, stitch length not too long. First trim the edge neatly.



Zigzag sewing

work and material. Set zigzag width (#19) according to

Finishing Edges

Stitch width: (# 19) Stitch length: (# 22) Automatic: Needle position: (#20) center $2^{1/2}-4$ 1 - 2www 0

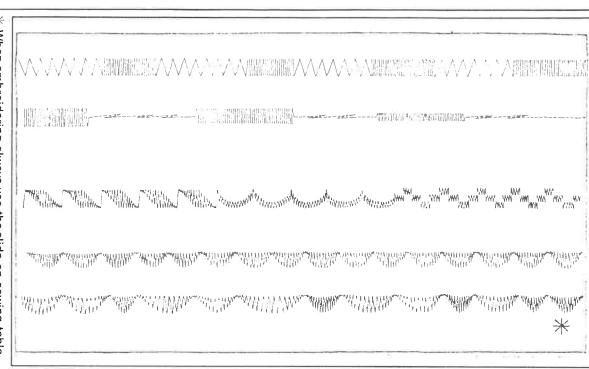
and MW (#15)

Feed control:

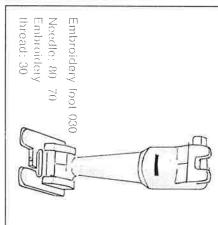
(# 14) front, close to the foot, fingers on the (# 15) edge, you will easily get a neat finish. If you guide the work like this: From the



Automatic stitches



* When embroidering always use the slide-on sewing table so that the work can enter **evenly** under the foot. Pushing or pulling produces irregular patterns.



WWWW 0

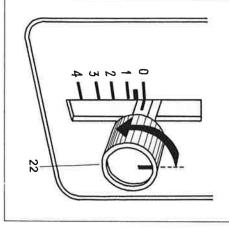
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W.

20

10

S



Automatic

To connect the automatic patterns: push lever 15 to rear (away from you). Pull lever 14 to right and set it next to desired pattern. When doing this do not leave the needle down in the material.

Stitch width: (# 19) 4
Stitch length: (# 22) almost 0
Needle position: (# 20) center

Paper underlay when needed

Automatic: 0 www (# 14)
and MW (# 15)
Feed control:

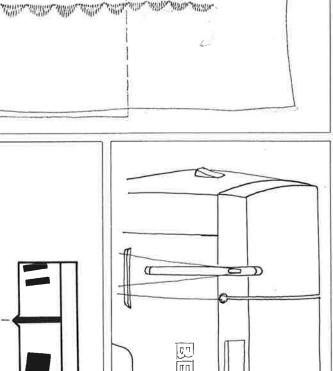
Needle position: (#20) center

Stitch width: (非 19) Stitch length: (非 22)

4--11/2 almost 0 Satin stitch (Close zigzag)

The satin stitch spacing can be finely adjusted by turning the stitch setting knob (22) from the stop "0" to the left (direction of arrow). (See also page 8.)

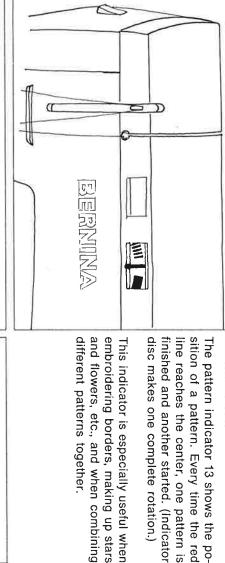
Automatic patterns

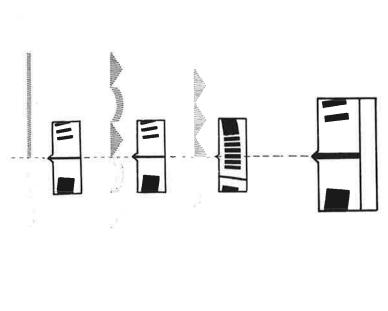


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The pattern indicator 13 shows the position of a pattern. Every time the red Pattern indicator line reaches the center, one pattern is

embroidering borders, making up stars disc makes one complete rotation.) different patterns together. and flowers, etc., and when combining This indicator is especially useful when

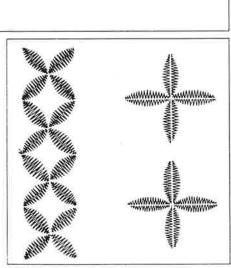




works very well and it is not necessary to use paper under-Note: Use "spray starch" when fabric permits using it. This

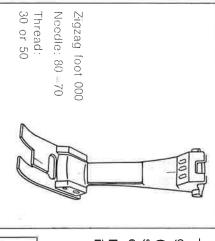
neath.

to prevent the material from puckering. (Do not use tissue paper, as this is too soft. Typewriting paper is excellent.) When embroidering it is advisable to lay paper underneath



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Hems on Jersey material



Hems for Jersey underwear

Needle position: (#20) center
Automatic:

0 www (#14)
and ww (#15)
Feed control:

Single turned-in hems

Stitch width: (# 19) 3 Stitch length: (# 22) $1\frac{1}{2}$

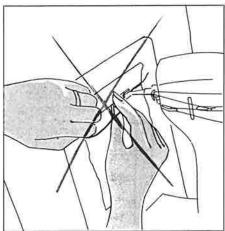
Double turned-in hems

Stitch width: (# 19) 21/2 Stitch length: (# 22) 11/2

The Waving of Jersey

To prevent the Jersey from waving, guide an extra thread inside the zigzag, (Not only for hems but whenever jersey stretches, e. g. patching, oversewing, etc.)

Press with a damp cloth before removing the extra thread.



How to hold the extra thread

Not like this, because you obscure the view of the work.

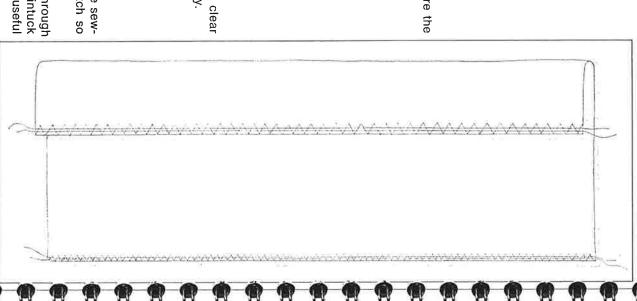


But like this: This way the view is clear and the work can be guided easily.

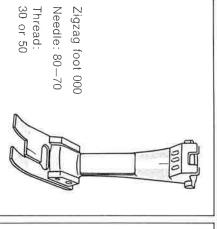
Important

Hold the thread slightly taut while sewing and the Jersey will not stretch so much.

The thread can also be guided through the hole in the needle plate like pintuck cord. See page 49. (Especially useful for a large patch.)



Patching Jersey



Patching Jersey

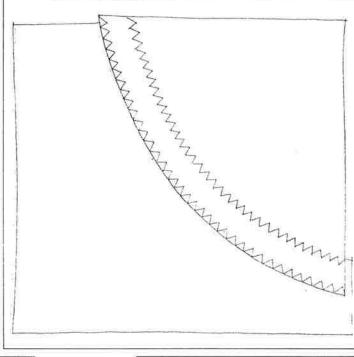
Stitch width: (# 19) about 3
Stitch length: (# 22) 1-11/2
Needle position: (#20) center
Automatic: 0 www (# 14)
and MW (# 15)
Feed control:

Baste the new piece on to the right side of the work, then sew it on, first with the zigzag just covering the edge, then a second time one presser foot width from the first seam. For cotton

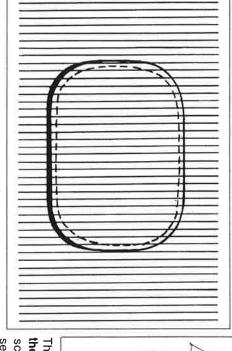
Afterwards cut the damaged piece out on the wrong side. (Hold the scissors correctly.)

Jersey use the extra thread to avoid

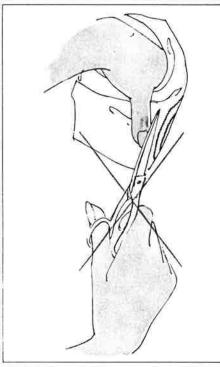
waving



Whenever possible make the patches in round shapes.

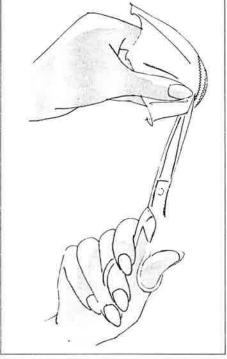


When square patches are unavoidable at least the corners should be rounded.



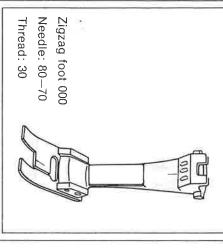
How not to hold the scissors

Whenever you have to trim close to a zigzag the scissors should **not** be held like this (with the backs of the hands towards you). There is a risk that you might cut into the stitches.



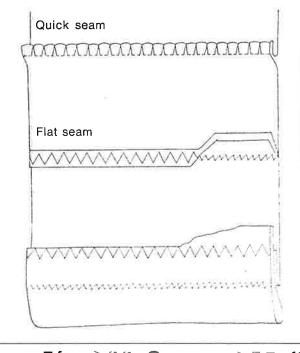
This way is much easier. Palm of the hand towards you holding the scissors quite flat!!! Cut only with the points of the scissors. The thumb of the left hand should be close to the seam just where the scissors are cutting.

Elastic seams on Jersey



Jersey Four important points, when sewing

- 1. Baste always with darning thread.
- Use only a perfect needle. A blunt needle leaves holes.
- Use fine mercerised thread
- Press each seam after sewing and not all seams together when the work is completed.



Seams on Jersey

Automatic: Feed control: Needle position:

0 www (#14) and www (#15) center



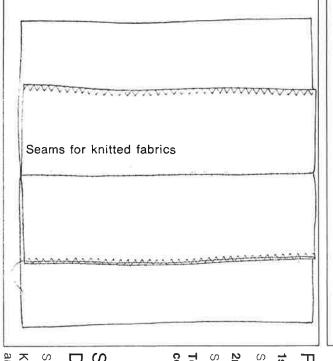
Quick seam

Stitch width: (# 19) Stitch length: (# 23) 3-4 1/2-1

Automatic:

Blindstitch (Pattern No. 1) and lever 15 at 1-20

Important! Cut edges must be on left. Joins up and oversews simultaneously.



Flat Seam — Cotton Jersey Underwear

1st run: join up at one presser foot width.

Stitch width: 1 (# 19) Stitch length: 1-11/2 (# 22)

Stitch width: 3 (# 19) Stitch length: 1-11/2 (# 22) 2nd run: press seam open and sew over it on right side.

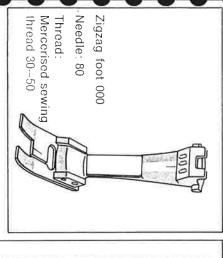
correctly. To finish off cut the remaining material. Hold the scissors

Seams for Knitted Fabrics: Dresses – Skirts – Sweaters

Stitch width: 1 (# 19) Stitch length: 1 (# 22)

are pressed open but remain stretchy. Knitted fabrics can be joined up like other materials. Seams

Very elastic seams



Flat joining seam

11

(e.g. Girdles) Especially for Lycra fabric

Stitch length: (# 22) Stitch width: (# 19) $21/_{2}$ $1/_2-3/_4$

Automatic:

Universal stitch

center

Feed control: Needle position: |

each other, then oversew edges. Lay cut edges approximately 1/4" over

11

Stretch seam

like Helanca, Crimplene etc. for ski trousers and very elastic fabrics

Stitch width: (# 19) 1-11/2Stitch length: (# 22) 1/2-3/4Automatic: Stretch with a

Needle position: and 1-20 (lever 15)

Feed control: center

somewhat wider zigzag stitch is directopen and if necessary overcast ed towards the cut edge.) Press seam the presser foot in such a way that the Sew tacked seam. (Lay the work under

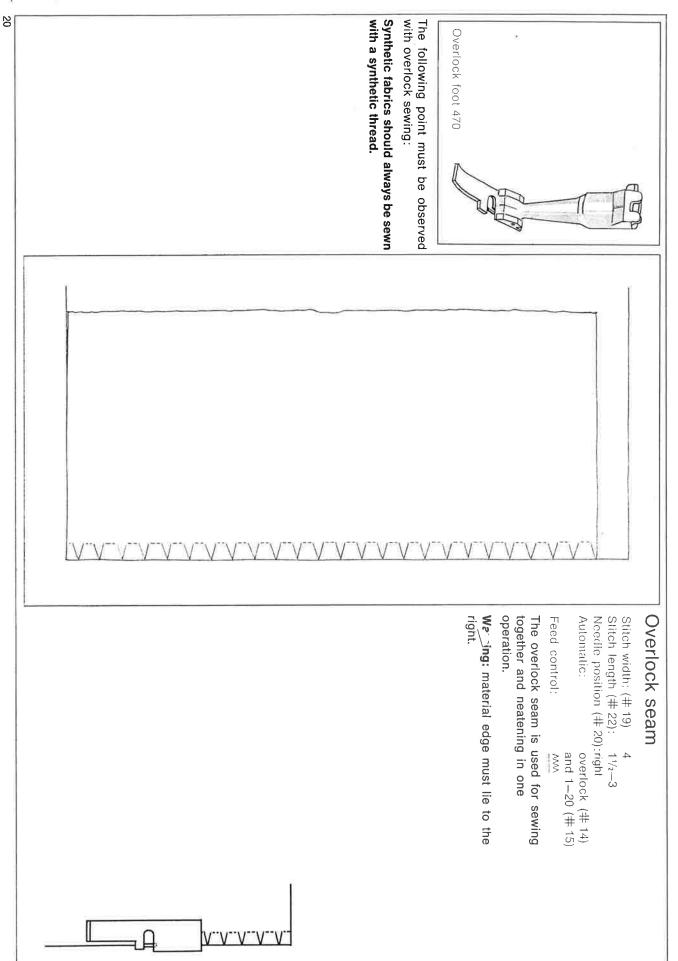
only for Jersey underwear. Stretch seam as hem

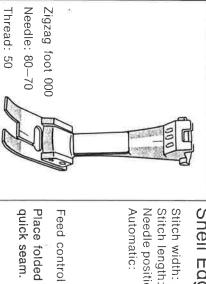
Stitch length: (# 22) approx. 3/4 Stitch width: (# 19) 3-4 Automatic: Stretch whowl

and 1-20 (lever 15)

Needle position: 3 center

hem.) Finish by cutting away surplus is directed towards the edge of the that the somewhat wider zigzag stitch (Lay the work under the presser foot so Measure depth of hem and then sew fabric on the sewn edge





Shell Edging

Needle position: (#20) center Stitch length: (# 22) Stitch width: (# 19) Automatic: (Pattern blindstitch

No. 1) and lever No. 15

at 1-20

quick seam. Place folded edge to the left as for

Elastic band

Stitch width: (# 19) Stitch length: (# 22) Needle position: (#20) center Automatic: Universal stitch $1 - 1\frac{1}{2}$

Feed control: |} ับบัน and 1—20

as the elastic. The zigzag stitch stretches as much on with zigzag. Trim off surplus on Do not pull the elastic while sewing. Pin or baste lace on and sew straight wrong side along zigzag. Hold the scissors correctly.

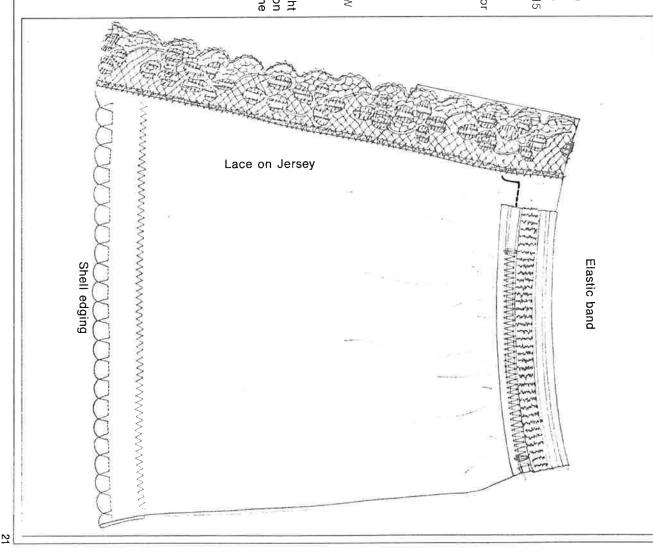
desired length. under thread and pull work up to long straight stitches, then draw the sey is to gather it up first, sewing The easiest way when sewing Jer-

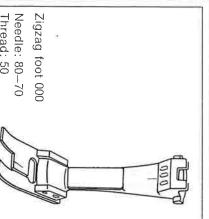
material on the wrong side. (Hold sew it with zigzag. Trim off surplus After this, pin on the elastic and

the scissors correctly.)

Lace on Jersey

Feed control: Automatic: Needle position: (#20) center Stitch length: (# 22) Stitch width: (# 19) 0 wwww and www $\frac{1}{4} - \frac{1}{2}$ $11/_2-2$





Thread: 50

in material Lace (and insertion)

Needle position: (#20) center Automatic: and MW (# 15) |

1st run

Feed control:

Stitch width: (# 19) Stitch length: (# 22) 0

about 1

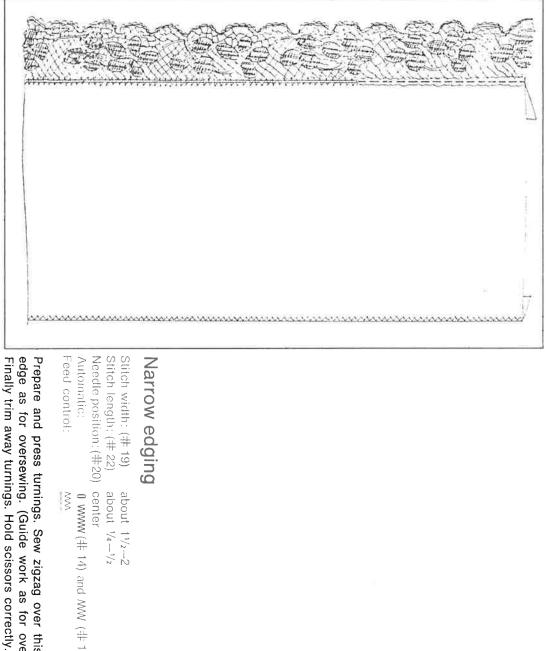
straight stitch. Pin in place, baste it and sew on with

2nd run

Stitch width: (# 19) $1^{1/2}-2^{1/2}$

according to lace Stitch length: (# 22) about $\frac{1}{4}-\frac{1}{2}$

off the turnings along the zigzag seam. Hold the scissors correctly. seam over the straight stitch. Then cut straight stitch and press. Sew a zigzag Fold turning to wrong side against



Narrow edging

Stitch length: (# 22) Stitch width: (# 19) about 1/4-1/2 about 11/2-2

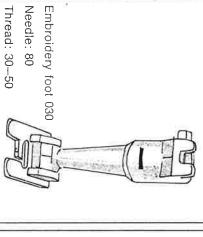
Needle position: (非20) center

0 www (非 14) and www (非 15)

edge as for oversewing. (Guide work as for oversewing.) Feed control: Prepare and press turnings. Sew zigzag over this pressed

Elastic thread

Gathering of material



Applying elastic thread

Stitch width: (# 19) Needle position: (#20) center Stitch length: (# 22)

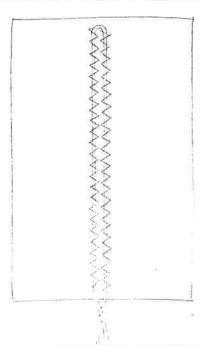
and MW (# 15)

Feed control:

Automatic:

sewing. The more you pull the more it Thread the elastic through the hole in the embroidery foot and pull it while sewing. foot width) pull material straight while gathers. For a second row (one presser

When doing it on socks do not pull the elastic too much.



Gathering material

Stitch width: (# 19) Stitch length: (# 22)

Needle position: (#20) center 2 (for heavy fabrics up to 4) 3

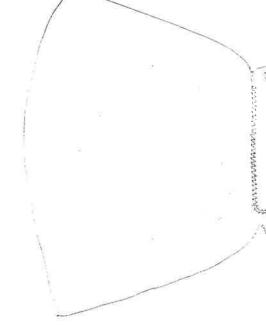
Automatic: (# 14) Feed control:

0 wwww and www (# 15)



Note the second that the second second

zigzag. Contrary to elastic, the cotton is not pulled while sewing but only afterwards. (Hold both yarns and gather mabroidery foot (as with elastic thread) and oversewn with terial.) Always sew two rows at a distance of 2 cm (1/4 inch.) The pearl cord is threaded through the hole of the em-



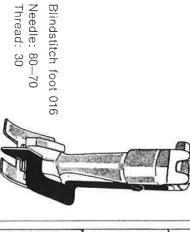
Normal gathering

Short pieces or sheer fabrics can also be gathered in this

Stitch width: (# 19) Stitch length: (# 22)

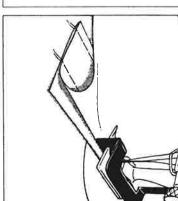
threads and gather up to the desired width. Sew two rows of straight stitch, then hold both bottom

Blind hem stitch

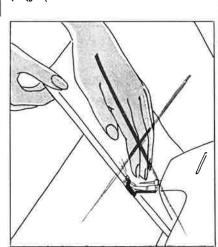


Feed control:

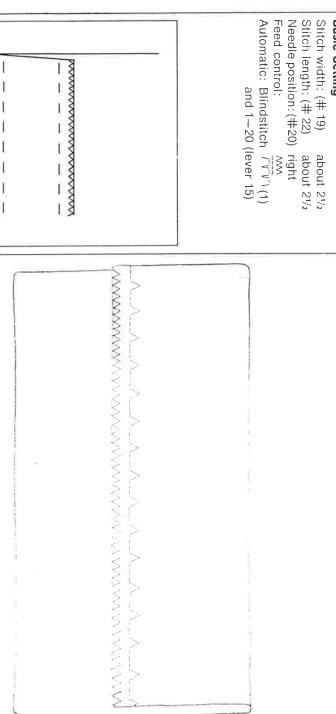
about 21/2 about 21/2 **Basic Setting**



This is how the work is placed under the foot. Adjust the zigzag so that the needle just catches the **edge** of the fold.



Very poor position.

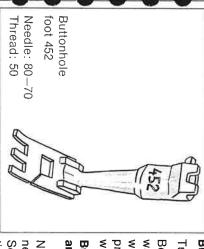


hand must lie on the folded edge so lightly while sewing. ing of the work. Hold the work very that they can "feel" the regular feed-This is the correct way. Fingers of left

gram, baste with machine or by hand a 1/4" from edge and press.

Oversew and prepare the hem as dia-

Buttonholes



Buttonhole sewing

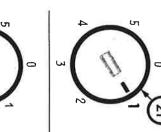
wheel until the needle is raised again. presser foot. Otherwise turn the handwhether needle is in the middle of the wards, about to foot height, and check Before starting, move needle down-Turn buttonhole knob (21) to position 1.

and needle! But in no event alter position of zigzag

Set satin stitch spacing, i. e. stitch setneedle exactly at the buttonhole start ting lever (22) to stitch length almost 0. Now push work under foot and place

starting to sew. ing on a spare piece of material before It is best to check the satin stitch spac-

thread by turning the knob (22). adjusted depending on material and The satin stitch spacing can be finely

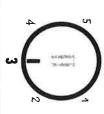


TORRALIAMO PRIMATA DE MANTO

Sew the first bead forwards.



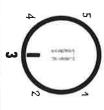
Machine sews the bar tack. Set knob to number 2 Needle raised



HALIMINE MANIMINE IN A SECOND CONTRACTOR IN A



Machine sews second bead backwards. Set knob to 3 Needle_raised



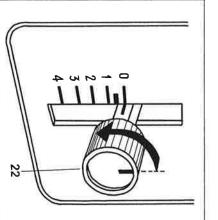
PARKATATA LATAKANAN Parkatatan kan

for sewing buttonholes. *

Lower thread through the slotted hole

Machine sews the bar tack

Set knob to number 4 Needle raised



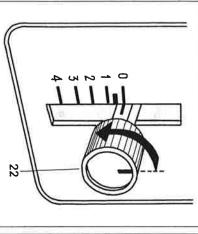




stitches Set knob to 5 and make several sew-up Needle raised

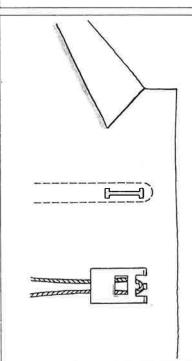
Set knob to 0

scribed above. ber 1. Remaining procedure as deknob (21) should be set again to num-If further buttonholes have to be sewn,



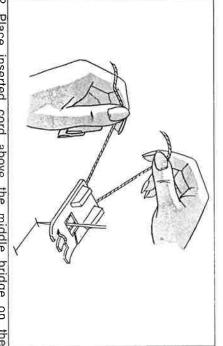
Fine adjustment of buttonhole satin stitch

The stitch density can be adapted in the simplest way to suit the material with stitch regulator knob (22). It is recommended to sew a trial buttonhole on a scrap of the material to be used.

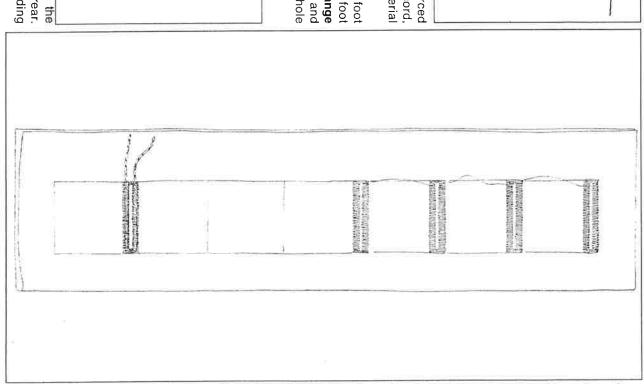


To ensure that the buttonhole is subsequently reinforced where the button pulls, by the loop of the inserted cord, always introduce the work so that the edge of the material lies in front of the presser foot.

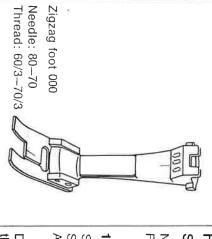
Engage buttonhole device. Move needle downwards to foot level, to check that it comes in the middle of the foot opening. If not do one stitch by hand, but **never change** zigzag or needle position. Bring work underneath foot and put needle down exactly at the beginning of buttonhole (inner end). Do not lower the foot yet.



Place inserted cord above the middle bridge on the presser foot and pull both ends under the foot to the rear. Do not hold cord, as this prevents work from feeding through.



Patching material



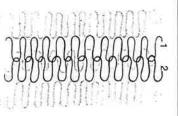
stitch Patching with running

Feed control: Needle position: (#20) center

1st run

Stitch length: (# 22) 1-11/2 Stitch width: (# 19) 11/2-2 Automatic: **0** www (# 14) and www (# 15)

and sew it on with a small zigzag. the new patch on right side of work, Do not cut off damaged part but baste



2nd run

Stitch width: (# 19) 4
Stitch length: (# 22) close to 0 Automatic:

stitch. Take care to oversew edges cor-



Stitch length: (# 22) 1 Stitch width: (# 19) 0

Automatic: 0 wwww and www

a straight stitch. Cut away damaged part. (Straight stitch makes the trimming Along inner edge of running stitch sew much more easy.)

Stitch length: (# 22) Stitch width: (# 19)

close to 0

Automatic: Running stitch 🔿 🗸 Needle position: (#20) center

and 1-20 (lever 15)

with running stitch

Modern "Darning"

Always underlay a fine fabric, Sew 2-5

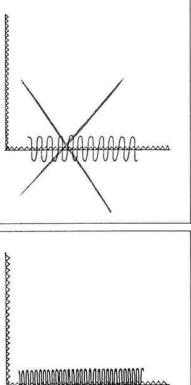
Feed control:

rows of running stitch (according to the

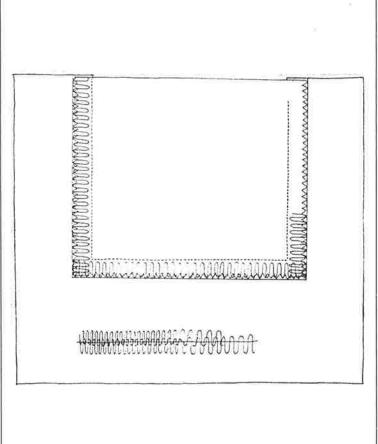
type of material).

and 1-20 (lever 15) Running stitch / し

Now sew over patch edge with running



Oversew edges correctly: See diagram. Running stitch should not overlap the





pends on regular guiding.

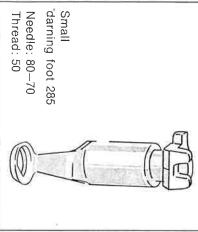
Hold the hoop correctly.

Always work from left to right

(as when writing).

ways) for selvedge and weftway.

Therefore:

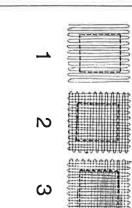


Darning material

Stitch length: (# 22) 0 Stitch width: (# 19) 0

Automatic: 0 wwww and www

Feed control:



A careful darn is done in 3 runs

- Weft-way, only over hole itself.
- Selvedge-way. (Not too dense or it becomes too thick around the hole.)
- Same way as 2nd run but only over hole itself losing threads in 2nd run of stitching.

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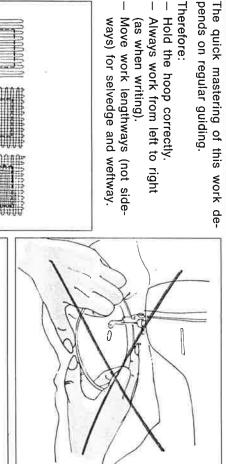
How to darn correctly

holes at the ends. Beginners may preblunt or the stitching will draw little Make the turning points of each row Take care not to get circles fer the L or M movement Frequent thread breaking — work guided

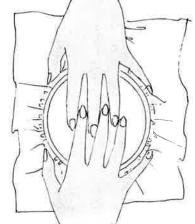
Main faults when darning

irregularly. Poor stitch (looping on top) - work moved too quickly.

you are moving the work too slow. When wrong side of work is "grainy" -



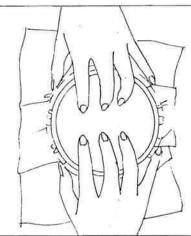
frequent thread breakage. This will produce irregular guiding with Do not hold hoop like this.



... but like this.

held. Whatever is to be guided must be firmly

Starting position of the fingers as in side of little finger to the frame. the picture - opposite one another. Thumb facing the frame (slightly bent)

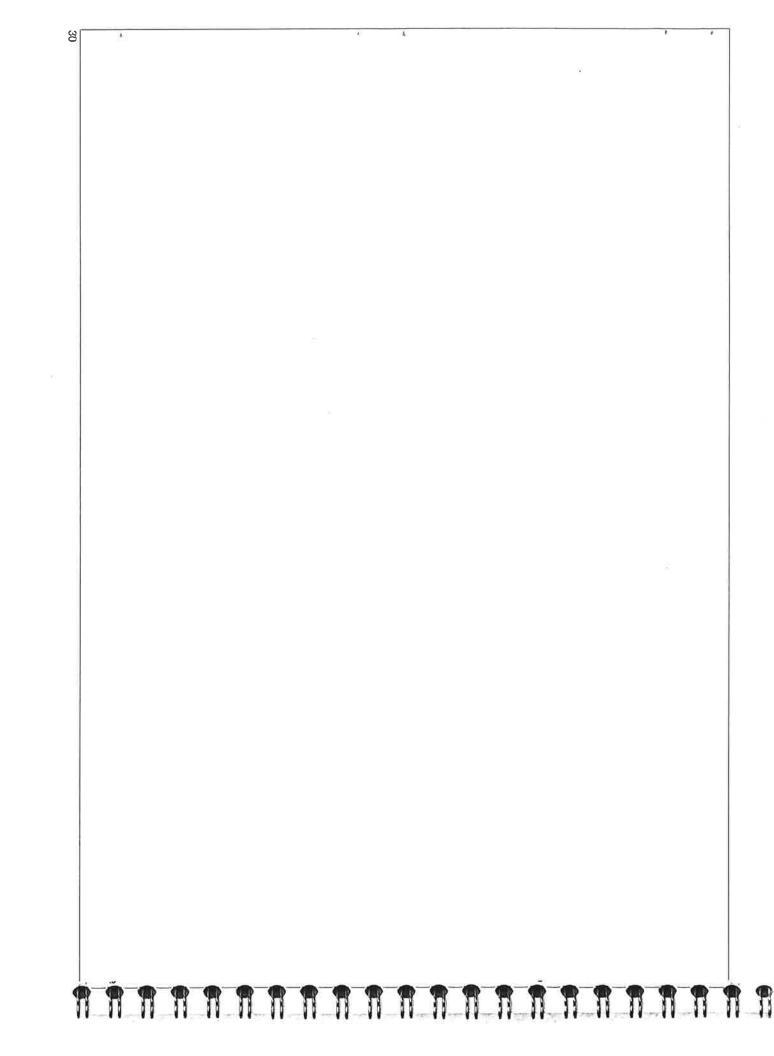


Then pulled back a little

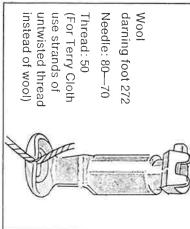
outer fingers. The frame is guided however by the

Dear Bernina Customer,

We are sure you will enjoy your Bernina even more now that you have learned how to use it. This modern machine has an enormous potential. The second half of your Bernina book describes supplementary jobs that can be carried out on the Bernina. Some of them require extra accessories which are provided against additional cost. Your Bernina dealer will be glad to help.



Darning with wool

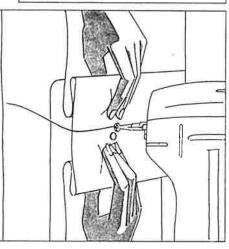


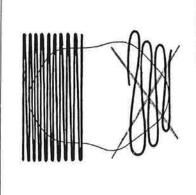
Darning of Woollens and Terry Cloth (towels)

Stitch width: (# 19) 3-4
Stitch length: (# 22) 0
Needle position: center
Automatic: 0 wwwww and www

Feed control:

Thread machine with matching thread. Lay the wool in the slot of the presser foot. The wool will then be guided automatically.





1st run: Applying the wool Start the work on the left

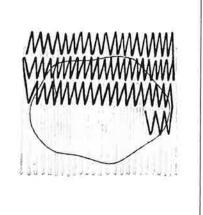
Start the work on the left, a little above the hole. Stitch down the wool with one or two stitches, and leave the needle down.

Hold the area to be mended correctly. Do not push the work to and fro on the machine, but hold it taut while you guide.

When applying the wool bear the fol-

When applying the wool bear the following points in mind:

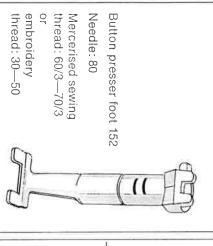
- Do not make too deep a curve at the ends or the threads will be too far appart.
- Apply the wool threads close together over the hole (they may even lie slightly over one another). Always move work sideways (left to right and vice versa).

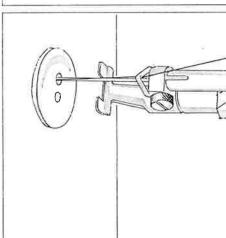


2nd run: Oversewing the threads

Cut the wool at the presser foot. Hold work again as before. Now sew across the new wool threads with a zigzag. The zigzag rows should not overlap nor lie apart from one another.

Sewing on buttons





Sewing the button on

Stitch length: Stitch width: Needle position: left

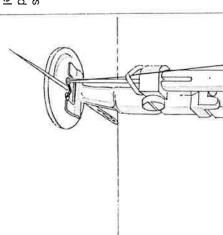
Feed control: Automatic: 0 wwww and www

lowered 护柱

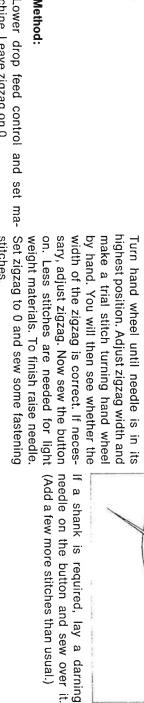
sew buttons on often will find the button Every zigzag presser foot can be used presser foot superior. The wide gap in for button sewing. However, those who front allows a clear view.

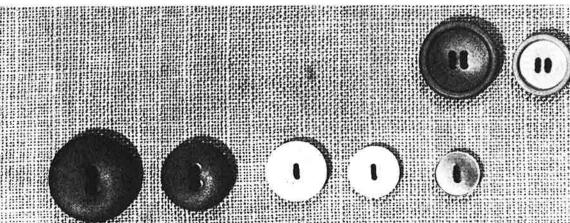
> presser foot. foot. Place button on marked spot and let needle into the left hole. Then lower usually the same, with the exception of

Slide piece of work under the presser The zigzag width is nearly always 3as the distance between the holes is decorative buttons.



(Add a few more stitches than usual.) If a shank is required, lay a darning

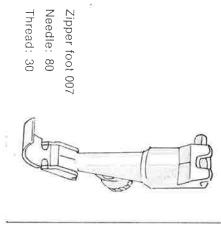




chine. Leave zigzag on 0.

stitches.

Method:

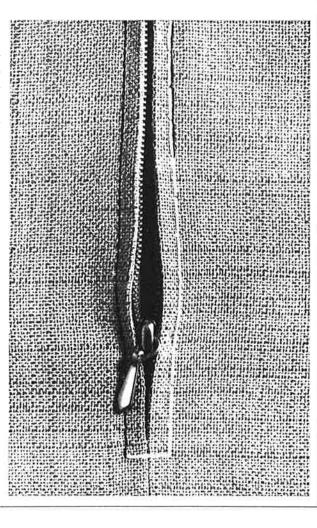


Stitch length: Automatic: Stitch width:

0 wwww and www $11/_2-2$

Feed control: Needle position: according to side set left or right

sewing www



the material. Open the zip before you sew it in. The zip is basted in by short stitches so that the teeth are entirely covered by

once with the needle position left. Sew down each side from top to bottom, once with the needle position right and

Hint: The easiest way to insert a zip

very long they are easy to remove.) Sew seam first with a very long straight stitch or basting stitch, then press open. (Damp if necessary.) Finish the edges then unpick seam. (When stitches are

When inserted like this both sides remain even and are not distorted

failor tacking

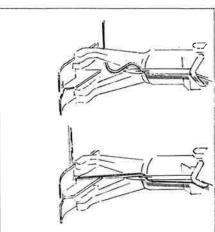
Needle thread: foot 419 Tailor tacking

according to materials and

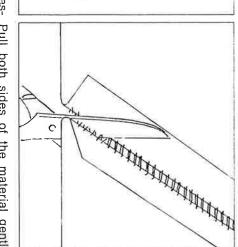
colours

Important preparation

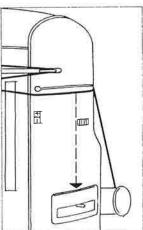
- 1. First set zigzag and put needle in its highest position. Presser foot is to be after this procedure, in order to avoid damaging the needle attached only after this procedure,
- in the tension slot. When work is finished replace thread altogether and pass round pattern lever Remove top thread from tension slot

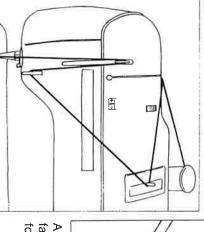


ser foot. Before starting to sew always lay the thread sideways under the pres-Draw thread to the rear under the presser foot.



apart and cut through the threads. Pull both sides of the material gently





Stitch width: Stitch length:

90 2

Needle:

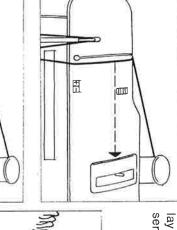
and normal sewing thread for the bobbin.

Use basting thread for top thread only;

(especially for wool materials) Tailor tacking with basting thread

slipping. the pattern. It is understood that the down first before basting to prevent pieces of material should be pinned recommended when working by machine rectly alongside the pattern. It is to be When tacking by hand one works dithe material with chalk and then remove (saves time) to transfer the pattern onto

A pattern can be transferred onto the foot, this forms the necessary loops. fabric with the aid of the tailor tacking



Stitch length:

Stitch width:

2-about 13/4

Tailor tacking with sewing thread

Feed control:

center

0 wwww and www

Needle position: Automatic:

Stitch length:

Stitch width: Needle:

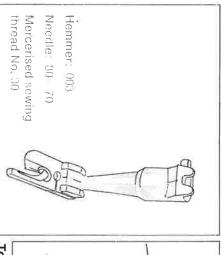
about 13/4

(for thin materials)

Tailor tacking with darning thread

Tailor tacking

he Hemmer

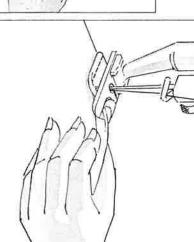


Stitch width:

Stitch length: Needle position: Automatic: Feed control:

13 center 0 wwwww and www 11/2--2



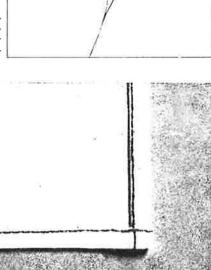


Leave needle in the fabric and lift presser foot. Tautly hold the first fold under foot. draw it through the spiral on the presser the presser foot with the left hand and

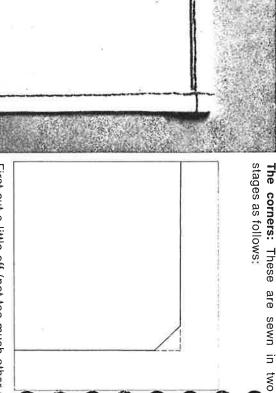


How to guide the work

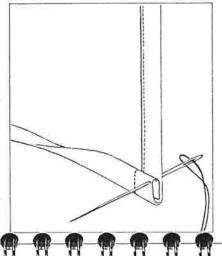
in a straight line. When guiding fabric hold it taut and lift it slightly. The edge of the fabric must be vertical and run through the machine



the presser foot and sew a few stitches. twice (not too wide). Lay work under To begin sewing: Fold edge of fabric

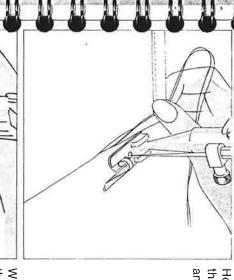


wise they will pull apart). Sew first seam. First cut a little off (not too much other-



Fold edge of fabric twice and draw a strong thread through by hand.

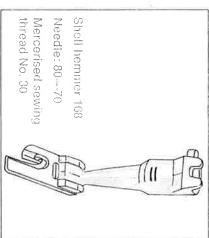
Shell Hemmer



Hold corner (together with thread) with thumb and forefinger of the right hand and lay the work near the presser foot.



the presser foot and draw through the spiral on the foot. Still holding the fabric under the needle. Stick the needle in and lower foot. taut draw it towards you and lay the end With the left hand hold the first fold near

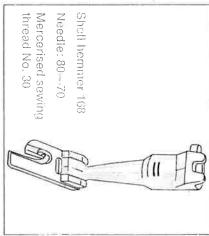


Stitch length: Stitch width:

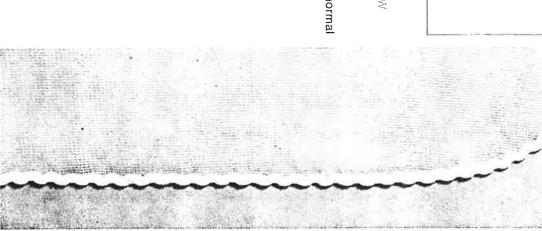
Needle position Automatic:

Feed control:

conter $2^{1/2}$ —3 0 WWW and MW



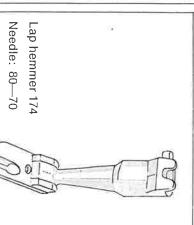
hemming. Use the same method as for normal



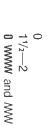
To facilitate sewing on the corner one should hold the tacked thread together

the corner.

until the presser foot no longer lies on with the sewing thread and pull gently



Mercerised sewing thread No. 30



Stitch length:

Stitch width:

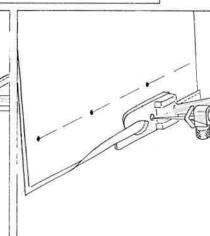
Automatic: Needle position: Feed control:

center

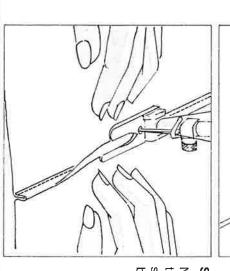


First operation:

Pin both pieces of fabric together so that the piece underneath projects by 3 mm (1/s"). Fold overlapping piece over the top piece and slide it under the presser foot. Sew a few stitches. Leave needle in the fabric, lift presser foot and guide fabric into the foot.

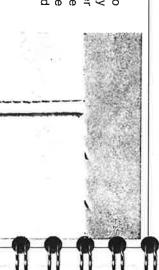


When sewing make sure that the same Width of material enters the feller all the time. Guide the fabric as you do when sewing a hem.



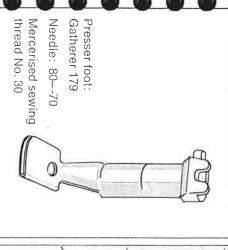
Second operation:

Now iron seam well, guide it again into the feller and sew the second row of stitches. Pull fabric slightly sideways on both sides of the feller.



38

The Gatherer



Stitch width: Stitch length: Automatic: $1^{1/2}$ —4

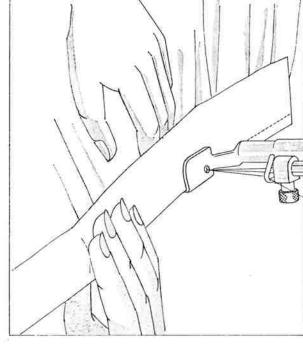
center 0 www and www

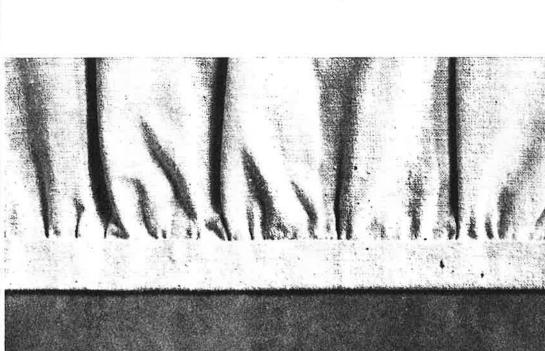


in the illustration, by holding the lower piece with the left hand and the upper piece with the right hand. Always pull slightly towords the right hand corner of the presser foot. In order to avoid this the work should be guided as shown The flat piece of material is inclined to slip out of the slot.

Calculation: The amount of gather depends on the length of the stitch. The longer the stitch the tighter the gather.

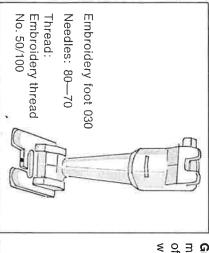
For tight gathering the upper piece of material can be pulled a little.





slot. The material to be gathered always lies under the foot and the flat piece in the

Applique work



Needle position: Automatic: 0 www and www center

Feed control: |}

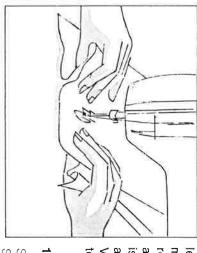
Guiding the work

You may work with or without the frame; however, taut material can be guided more easily.

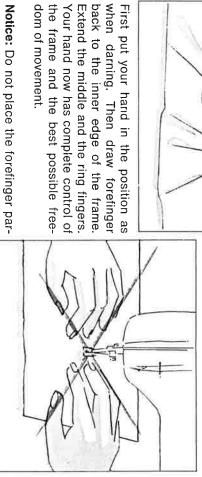
curves the work must be guided by hand should not be pressed onto the sewing lightly held by one or both hands and i. e. the frame or the material must be tically but only in a straight line. For Important: The machine feeds automa-

> with this hand only. must hold the frame steady, because Guiding with the frame: The left hand Guiding without frame: «You can only

often the frame is guided during sewing Nevertheless, it is essential to hold the guide the work if it is held lightly.» design requires. only way the work can be turned as the material itself rather taut. This is the



large (see diagram). rial. Make a fold if the piece of work is Correct: Place thumbs under the matepresser foot Guide near the



sure on the work will result. Incorrect: This way is incorrect as pres-

ment of your hand will be restricted. allel to the thumb, otherwise the move-

dom of movement.

Working sequence

Preparation: Trace design on the wrong cial tracing paper. See that the motive side of the material with the aid of spe and then transfer it onto the materia is to be used often trace on thin Vilene to stiffen it if desired. Vilene can be tacked on to a garmen are difficult to draw on.) If a design the rough and irregularly woven fabrics that material. (Especially recommended lene ironed on to the wrong side of the traced onto iron-on Vilene and the V is in reverse. The design can also b

1st run:

Stitch length: Stitch width:

side. Tack material for applique onto the right

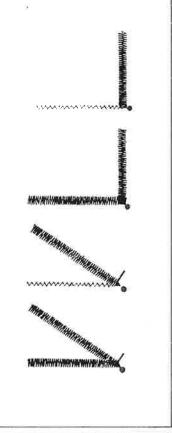
- wrong side. 1. Sew along the traced lines on th
- 2. Turn to right side and cut away near plique material. (At the same time re ly along the sewn lines any surplus ap rectly. move the frame.) Hold scissors cor-

2nd run:

Stitch length: Stitch width: almost 0

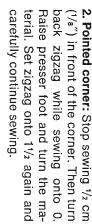
wheel). with Satin Stitch. Sew corners and small curves, Cover the cut edge on the right sid stitch by stitch (using han

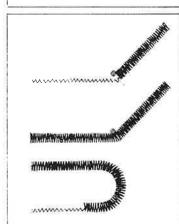
were not appliqued and sew from the Finish by tracing the lines through the right side.



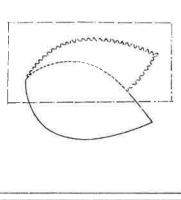
bewing the corners

• Rectangular corner: Put the needle on the outer edge, turn the work and continue sewing. The corner will now be oversewn.





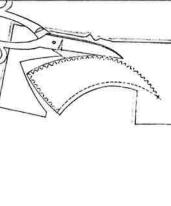
3. Blunt corner: Sew until the needle is in the middle of the angle. Then sew out from center, replacing the needle in the middle after every stitch, raising the presser foot and turning the work slightly Curves using the same method as for blunt corners.



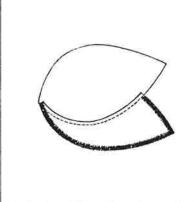
Multi-colour applique work

The lower part:

1. Only this part of the applique material should be tacked on. Sew around: Where the colours overlapuse straight stitch and zigzag the other contours.

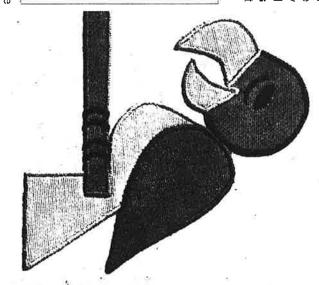


2. Trim away surplus applique material, cutting as closely as possible to zigzag stitches. Where a straight stitch has been used leave 1/2 cm (1/8") beyond stitches.

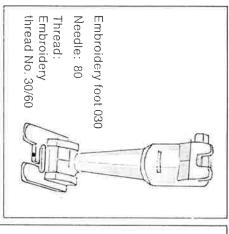


 When covering the contours leave the straight stitched edge uncovered.
 This will be covered again by the next part.

Top part: Complete in the usual manner for applique work.



Satin Stitch embroidery



Stitch width:

Stitch length: almost 0
Automatic: 0 www a

0 www and www n: center www

Needle position: center Feed control: www.

when embroidering over satin stitch and ornamental stitch seams:

Remember the following

The stitch length for embroidery is to be adjusted to a short length. The material may block progress when the foot moves over a seam already embroidered. By guiding the work close to the foot and assisting its movement the difficulty can be removed.

If the foot is almost over the edge of the seam, hold the material back a little otherwise the foot will glide away and this will result in a long stitch (which will look as if a mistake has been made).

Satin stitch corners

- 1. Open corner: Sew until a space the width of the stitch is left in the corner. Place needle on the inside edge. Turn work and continue sewing.
- 2. Closed, oversewn corner: Sew to the corner. Put needle on the outer edge, lift presser foot and turn work. Lower foot again and continue sewing (help a little by placing finger near the foot, see embroidery over satin stitch or embroidery seams).
- 3. Corner with diagonal design (rectangular): Sew to the corner. Place needle on the outer edge. Lift foot, turn sewing work. Needle position, left or right (according to design) sew zigzag on 0. Lower foot. Now whilst sewing slowly turn zigzag onto 4 again; sewing slowly!
- Corner with diagonal design (for festoonery). Needle position left!

a) Lay the work under the foot so that the design can be seen in the slot that runs lengthwise. b) Sew to the corner, i.e. till the needle is about to make a stitch from the left on the line drawn to assist you. c) Raise foot, turn work and turn zigzag to 0. Lower foot again. Make sure that the design appears once again in the slot that runs lengthwise. d) During sewing turn the zigzag again slowly onto 4; sew slowly!

Border scallops

Borders for table-cloths, table-napkins,

Preparation: Draw the scallops with the aid of a cardboard stencil onto the mag terial. Mark all the corners with white crayon. Underlay with paper.

1st run:

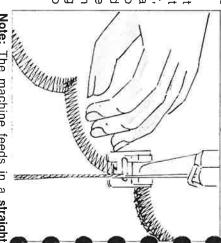
Stitch width: 4
Stitch length: almost 0

Sew satin stitch seam. Remove pape and carefully cut round the scallops.

2nd run:

Stitch width: 21/2—3
Stitch length: 1—11/2

Oversew edge with zigzag. At the same time guide a pearl cord along the edge making sure that it does not slide over under it.



Note: The machine feeds in a straight line and not in curves. The border cormust therefore be held straight and the scallop edge must be guided on this straight line. Guide slowly and near the foot

Satin Stitch embroidery

Straight border

Preparation:

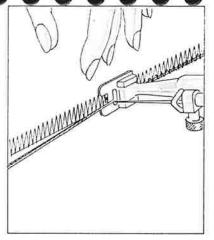
Draw border line, underlay with paper.

1st run:

Stitch width:

Stitch length: almost 0

Sew satin stitch seam. Remove paper Corner: Sew to the corner. Lower drop and cut away surplus material.

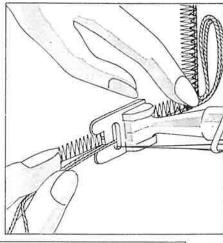


tinue sewing.

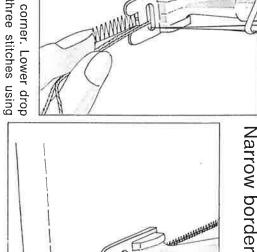
2nd run:

Stitch length: Slitch width: $1 - 1^{1/2}$

Oversew edge with zigzag. At the same neither slides over or under the edge. three- to five-ply) taking care that it time guide through pearl cord (No. 8



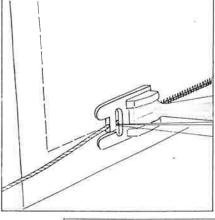
ends of the cord. (See diagram.) Push material) through the hole of the emches. Raise drop feed control and conthe work at the inside edge, raise foot, the hand wheel. Leaving the needle in feed control. Sew three stitches using ner. To make loop disappear pull the Draw perl yarn No. 5 or 8 (according to the foot. Place the cord (mostly 1-ply) until the foot no longer lays on the corturn work. Make a loop with the cord, tinue sewing carefully. Pull on the loop lower foot and sew further three stit-Foot:



1st run:

Needle position: Stitch width: Stitch length: center $1^{1/2}$ Embroidery foot

corner stitch over the corner and con- broidery foot. Sew seam with satin stitch. this way the yard is joined exactly to the Cut surplus material away carefully.



2nd run:

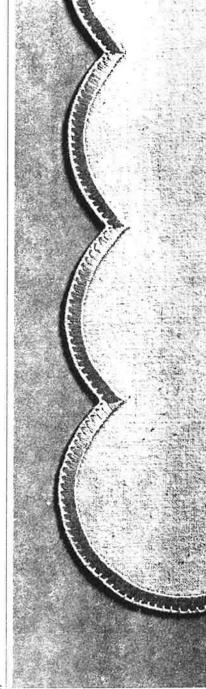
Stitch width: Foot:

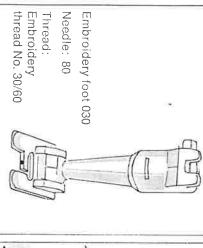
Small button-hole fool

2-3 (according to material)

Needle position: center Stitch length: almost 0

into the right hand slot of the foot. In stitch seam with a second. Lay the work edge. Make the corner in the same way Now completely cover the first satin satin stitch seam is in the left slot of under the foot in such a way that the as with the wider border.





practising these rules. while spending some time studying and broidering with the automatic. It is worth a knowledge of the basic rules for em-As with hand embroidery, one must have

Before you begin any embroidery work note the following:

- ready. Attach embroidery foot, have paper
- 2. Use the same colour embroidery thread for the top and the bottom.
- 3. Practise with a remnant of material (and underlay with paper).
- 4. Observe work in the foot hole.
- plete the rest of the sewing. 5. Always embroider first and then com-

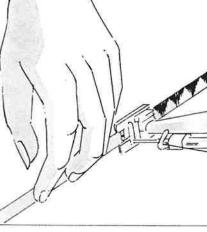
Braiding

Stitch width: Stitch length: Needle position Automatic:

almost 0

Feed control: center

As desired and 1-20



procedure in the foot hole!)

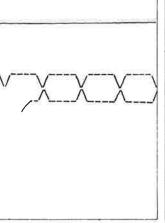
cord Over-embroidering with

Stitch length: Automatic: Stitch width:

As desired and 1-20 almost 0

Needle position: reed control: center

foot. Guide cord (Lurex thread) at the same time through the hole in the embroidery



Cord in the bobbin case

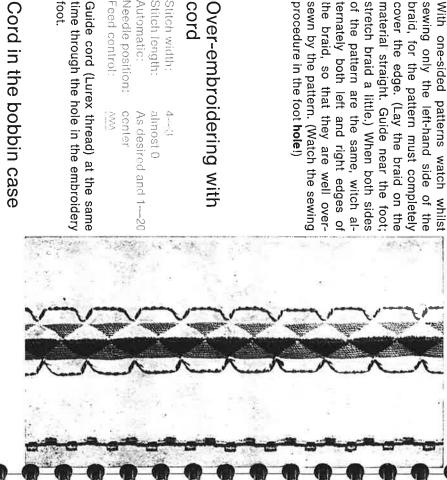
(also plain or metallic thread)

Stitch length: Stitch width:

Automatic: 17 v or w center

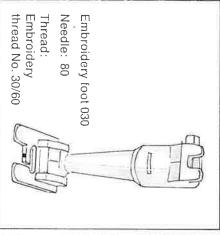
reed control: Needle position:

bobbin tension and tighten upper tension a little. design onto paper or Vilene. Loosen To be worked on wrong side. Trace



MANAGE TO STATE OF THE STATE OF

"MWWWW"



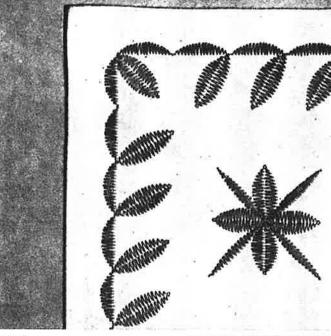
Automatic: Stitch length:

Feed control: Needle position: center 3 As desired and 1--20

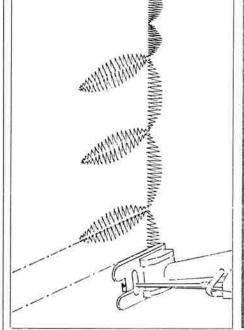


Stitch width:

1/4-1/2



put it there.



3. When the pattern is finished it will be

indicated on the pattern indicator.

4. The parallel position of the leaves is

attained when the foot stands parallel

to the middle of the previous leaf.

small leaf = two motifs) sew slowly to

2. After sewing half of the motif (one

1. Hold right hand on the hand wheel

foot.)

avoid sewing past the end of the pattern.

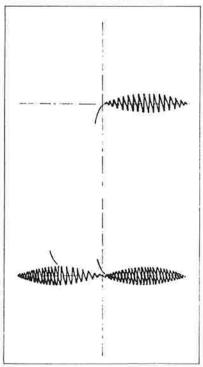
It is recommended to practise this tech-

Lengthening the pattern

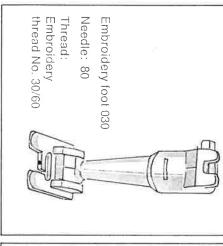
(Watch the sewing through hole of the nique before one sews flowers and stars.

Flowers and stars

- shorter or displaced. Always begin in the middle.
 Do not sew past the end of the pattern when in the center of the star, otherwise the leaf opposite will either be longer,
- 3. When the needle has reached the center, always make sure that is really in the middle. If it is not exactly in the middle,
- middle line between the leaves already sewn. 4. For the leaves in between, position the needle on the



Oversew each leaf once again on this motif.

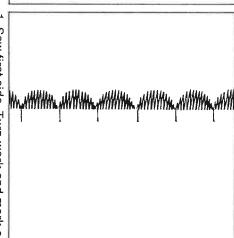


Stitch width:

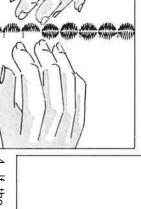
Stitch length: As desired and 1-20 almost 0

Automatic:

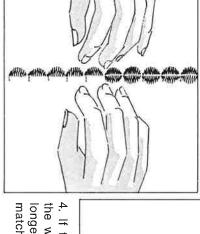
Necdle positional center Feed control:



only). the places for the motifs (for practice Sew first side. Turn work and mark all



match correctly. longer motif but the next pattern should the work slightly. The result will be a 4. If the motifs do not match up push



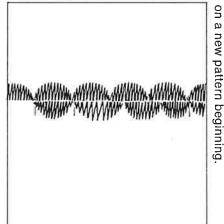
one another, one side of the presser

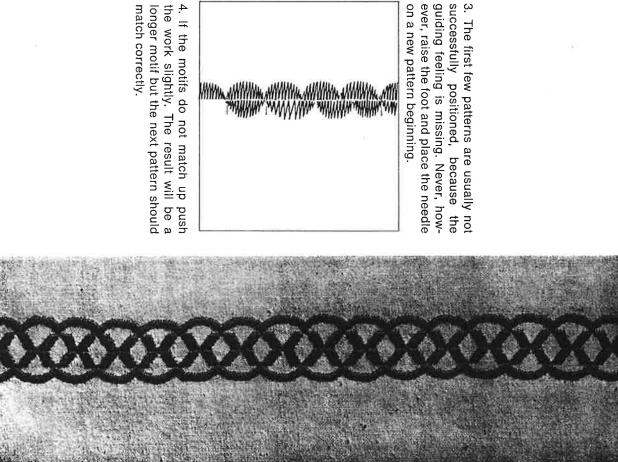
If two patterns are to be placed opposite

tern. In this way the density of the satin foot runs on the previously sewn patopposite one another

Placing two patterns

to the next one, i.e. from motif end to lie on the material; However, the middle the foot in such a way that all fingers 2. When resuming sewing, guide near has been sewn the fingers move down motif end.) fingers guide the most. They must be always exactly on the mark. (After a motif





ironed cotton (not too large, approxi-

The best way to practise: Use smooth,

as it is mastered, it will be a joy to do.

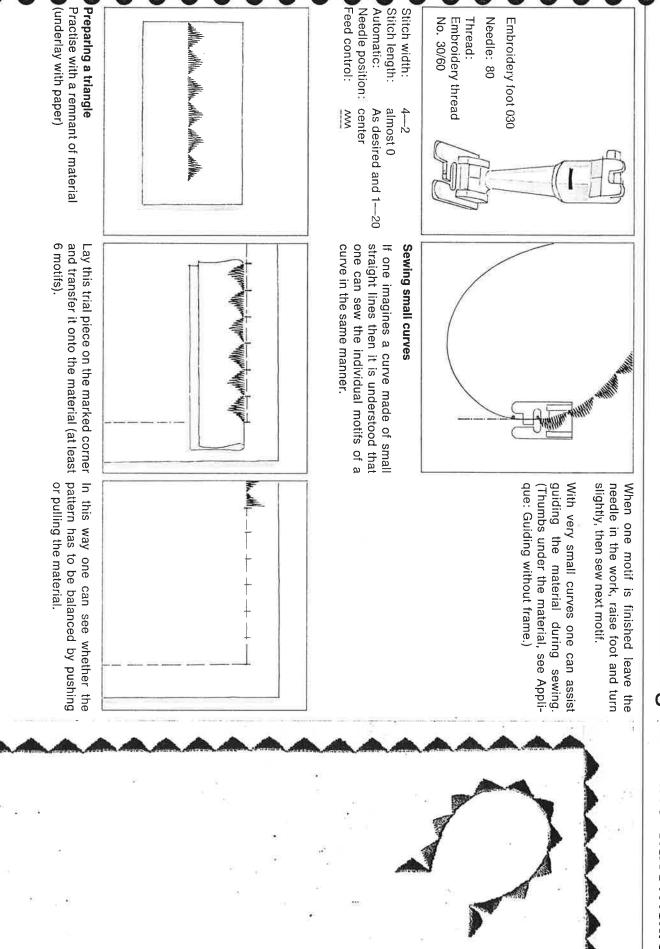
assisted a little. It is worth while practis-

correct this readily the work should be

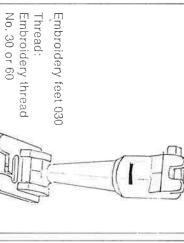
ing this guiding technique first. As soon

may not correspond automatically. To stitch becomes closer, and the patterns

mately $8\times8"$), underlay with paper.



Double and treble needle



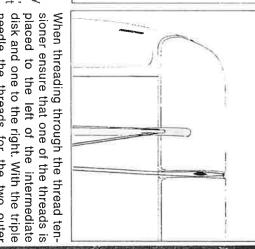
Double needle

colours. be it shades of one colour or different beautiful effects on delicate materials, These special needles produce very

Adjustment

Needle position: Automatic: conter As desired and 1---20

Feed control:



and the thread for the center needle on needle the threads for the two outer the other side of the intermediate disk. needles should be inserted on one side

upper thread bobbin on the reel holder.) (Keep third thread on a lower thread bobbin and place below the left hand



Double needle

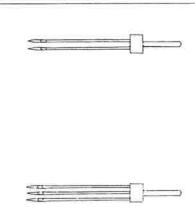
Stitch length: Stitch width: (according to pattern)

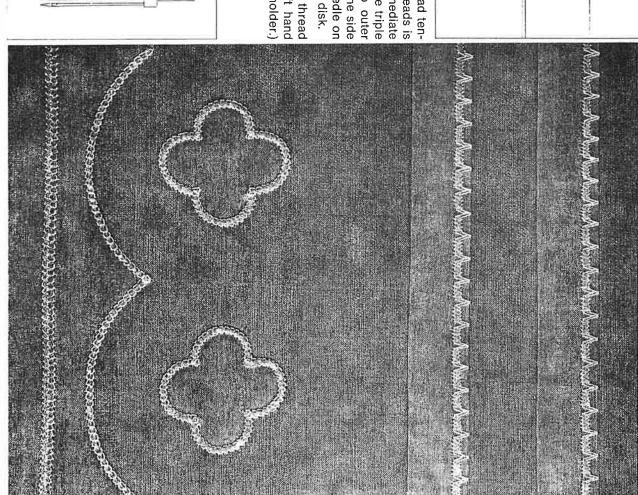


Triple needle:

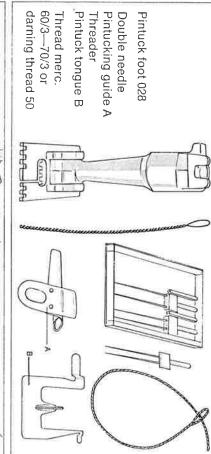
Stitch length: Stitch width: $1^{1/2}$

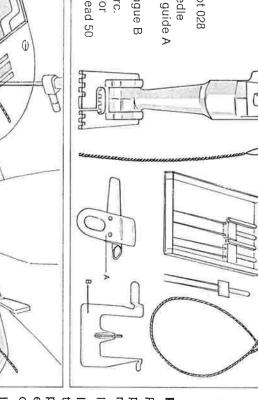
(according to pattern)





Pintucking





Sewing pintucks Stitch length: Stitch width: Automatic:

Preparation Feed control: Needle position: center to sewing

machine). plate for pintuck guide A (can be left in Release screw C and exchange small

Insert pintucking needle.

cular hole in front of the stitch hole. pintucking guide from below so that it emerges in the stitch plate from the cirthreader (small wire with loop) through Introduce pintucking thread: push

pull upwards with the aid of the wire. Insert pintuck thread in the coil and

plate). or stiff materials to ensure the pintuck Pintuck tongue B is required for thick is better formed (fix tongue on stitch

(1)

ther, but bring them singly from the tathe two threads are not twisted togedouble needle) are required. When threading the machine take care that For pintucking, two top threads (for Decorative stitches with double needle ke-up lever to the needles.

achieved automatically by the grovves in the foot. Uniform spacing between pintucks is

up to the previous pintuck.) this case the foot must be taken close of one presser foot is necessary. (In between, a space of exactly the width If decorative stitches have to be made

Sewing pintuck corners

with points (up to eye), half turn work, do one stitch (with handwheel) leaving right-angles as in normal sewing owing Corners cannot be turned directly at needle points in work. therefore, as follows: Insert needles to the double needle. The procedure is,

0 www and www approx₁ 1½

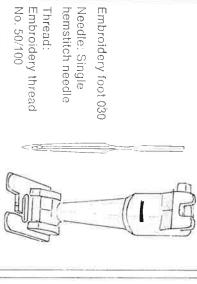
Complete the turn and continue sewing.

(withdraw pintuck cord)

Needle position: Stitch length: Embroidery collon: No. (a) ex (a) Stitch width: Feed control: Automatic: DEADS OF as decara: center appro:

broidery foot is used in general for takes over guidance. Otherwise the embetween or very close to pintucks, the sewing fancy stitches. pintuck foot should be used since it If decorative stitches have to be sewn

Hemstitching (for fine fabrics)

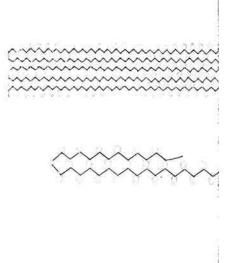


Single hemstitch needle

Stitch width: 2
Stitch length: 1
Needle position: center
Automatic: 0 WWWW a

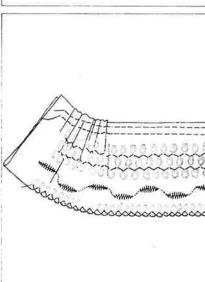


Feed control:



Method

Sew first row of stitching. Leave tip of needle in work, turn and sew second row (the needle will then pierce holes of first row on one side).



Ruche

Iron bias strip of organdy in two. Sew hem stitches at the desired distance over the folded edge. Sew the ornamental stitch in between with a normal needle.

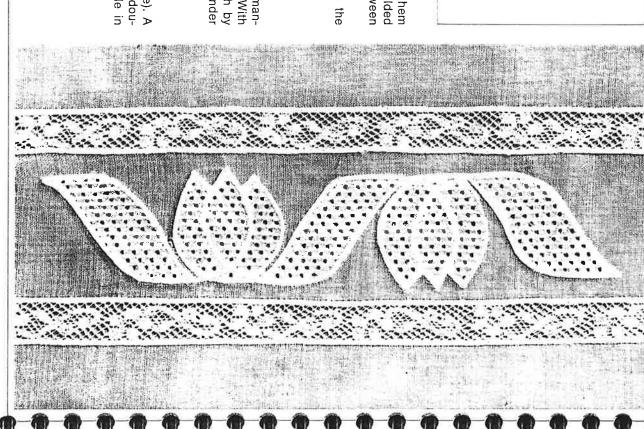
An Entre-deux (insertions) is worked in the same way.

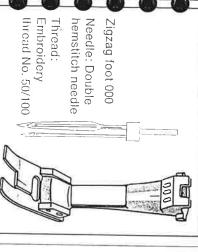
Applique with Pre-Embroidered Material (use Organdie double)

Hem stitch a piece of fine material in the manner described until you get a trellis effect. With this trellis make a normal applique. Finish by cutting away background material from under trellis.

Trellis work with metallic thread (Lurex)

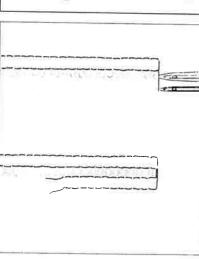
Can be used as a border (e.g. for a stole). A very attractive effect is brought about if a double metallic thread is led through the hole in the embroidery foot.





Double hemstitch needle

Feed control: Automatic: Veedle position: center



Zigzag Hem-stitching

Stitch length: Stitch width: 13/4

tinue sewing. Do not hold the work back. work. With the wide needle stitch through again and raise the presser foot. Turn stitch, then turn back the hand wheel of embroidery. Just pierce the last left the previously pierced hole and con-Sew the first side of the hemstitch row



Fancy Hem-stitching

Automalic: Stitch length: Stitch width:

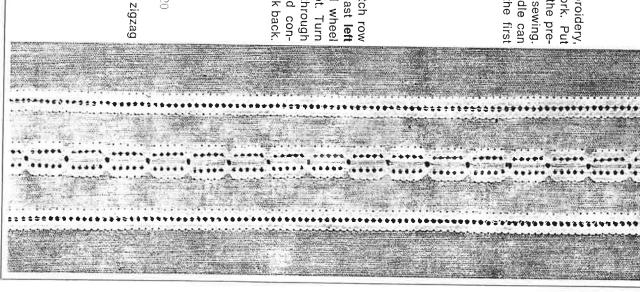
V V 1 and 1-20

hem-stitching. Worked in the same way as the zigzag

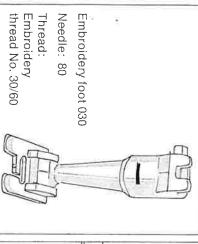
Ordinary Hem-stitching

Stilch length: Stitch width:

seam. Do not hold back work. sew exactly into the holes of the first viously sewn row and resume sewing. Sew first hemstitch row of embroidery. In order that the hemstitch needle can wide needle in the first hole of the preraise needle and foot, turn work. Put



Circular embroidery



Stitch width: Stitch length: Automatic: As desired and 1-20 almost 0

Needle position: center Feed control:

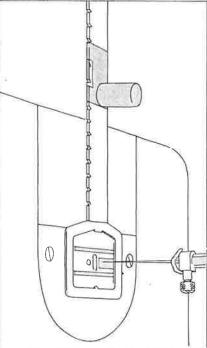
1

fold in the corners and fasten with safety pins. ferably worked in an embroidery hoop. should be stiffened (with Vilene) or pre-For circular embroidery the material To prevent large pieces from pulling

Easy Circular Embroidery

(Circles with the same center point)

must be moved accordingly. circles are to be embroidered the work Combinations of circles prong (arrange distance from needle accordingly) and embroider. If further Place the embroidery work onto the

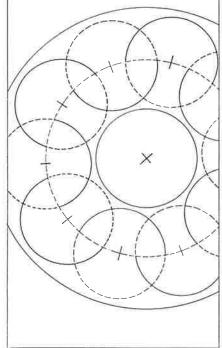


X

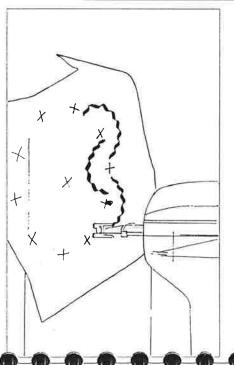
X

Secure the circle embroidery attachment this way.

with tracing paper. Transfer the center point of all the circles onto the material



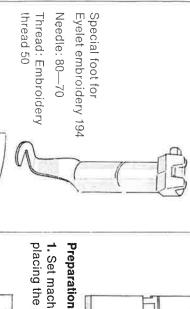
a pair of compasses. Distinctly marking the center make a design on paper with



Secure a center point onto the prong and embroider the required parts of the circle.

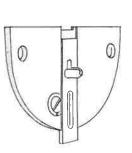
Circular embroidery

Eyelet or English embroidery



0

1. Set machine, change needle plate, placing the screw at top left.



0

2. Loosen screw, secure required slide with the prong slot on the left, but do not tighten screw yet.

Slide

0

3 mm

Slide

0

5 mm

Slide

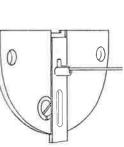
6

2 mm

4

Special needle plate

0



3. Place the needle (swinging to right) into the opening, then slide the plate along until the needle is just inside the prong. Carefully tighten screw.

Thread bottom cotton through hole. (Page 25)



- 1. Always use frame. Stretch material.
- Punch holes with hand awl, pushing halfway through for small and right through for large eyelets. (Square awl for felt and leather.)

them with safety pins to prevent pulling

(When sewing with large pieces of ma-

terial, fold back the corners and secury

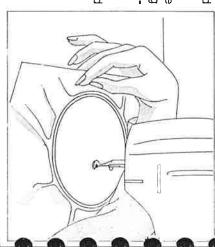
Guiding the work

when turning.)

3. Secure work onto the prong and sew eyelet embroidery. Sew twice around the small holes and three times around the large.

Important: Turn the frame faster for the first round (a), then for the following rounds (b) and do not change the sewing speed.

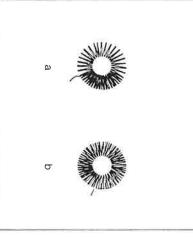
4. Set zigzag to 0. Turn work again and fasten with a few stitches.



Hold the work in such a manner that can be turned around in one go without stopping the machine and renewing one's hold. Turn without varying movement

Allow machine to run at a medium and constant speed.

Important: Start turning as soon as machine is in motion. Stop machine are soon as one has finished turning, otherwise uneven tickness will occur.



54

Feed control:

lowered

Needle position: 0 www and ww

Stitch length: Automatic:

Stitch width:

11/2 small / 21/2 large

Square Awl

Round Awl

]

Eyelet or English embroidery

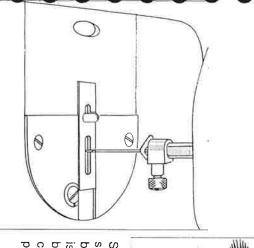
embroidery around the eyelet Ornamental stitching

(work with frame)

Stitch width: Stitch length:

Feed control: Automatic:

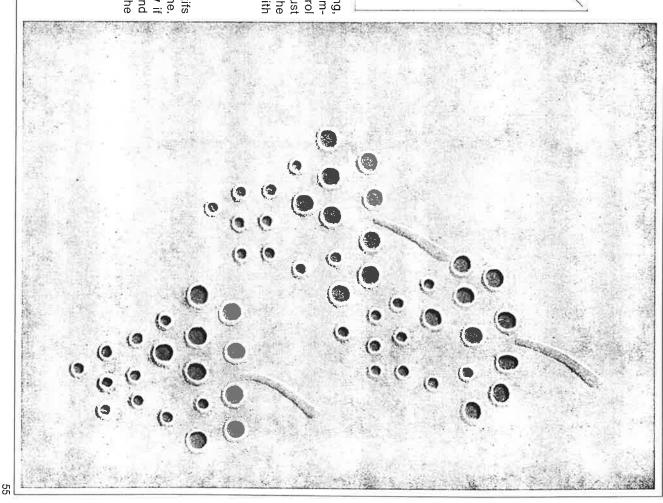
lowered 社会 As desired and 1--20



punch embroidery. circle cannot be sewn in one go as with broider circle. As the drop feed control set pattern indicator to center and embe turned by hand too. Naturally the is lowered, the embroidery frame must Secure embroidered hole onto the prong,

by the slide. neath should be clear and not covered even. It is recommended to use the quired. The opening in the plate underthe left according to size of circle re-Put needle into its highest position. Interrupt the work after a few motifs Loosen screw and move slide towards

the embroidery is to appear neat and One must sew slowly and unvaryingly if and renew hold on embroidery frame. slow speed of the machine.



Without foot

Needle: 80-70

Thread:

Embroidery thread 50

Stitch length: Stitch width:

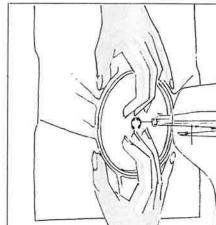
Needle position: center

0 wwww and www

Feed control: lowered 计算

a foot. Important: Lower the foot lever Stretch the material tightly in the frame as the work is to be carried out without unatractive work will result. top thread tension will remain open and just the same as usual, otherwise the

hole sewing). will run more smoothly (as with buttonthe finger of the bobbin case the work If the bottom thread is drawn through



Guiding the work

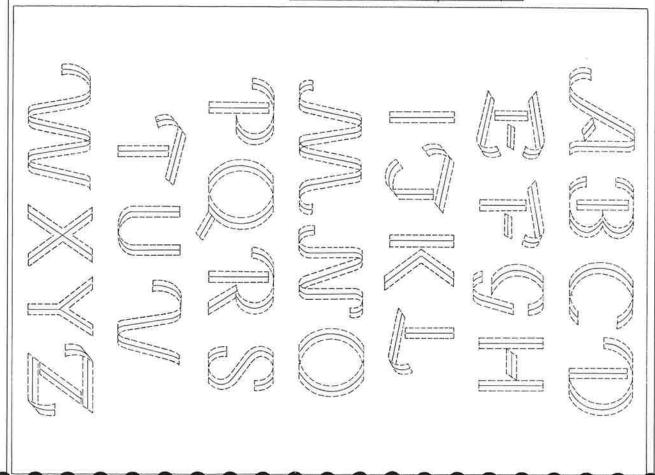
grams. movements produce uneven monomove fingers while working, as jerky Hold frame as when darning. Do not

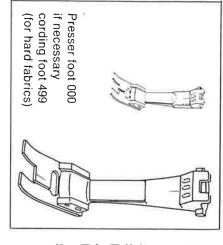
Method

needle ready to begin and make a test better the result. stitch. The drawn line must be in the Bring up the bottom thread through the material, sew a few straight stitches and middle of the zigzag. cut the thread ends. Set zigzag. Place

To produce a perfect monogram a great deal depends on how the frame is held. The more securely the work is held the

Move the frame as though wanting to Important: Allow the machine to run write with it. Do not stop moving frame rather quickly; however, the frame until the monogram is complete. should be guided slowly and steadily.





Cordonnet can be worked in two ways:
A — as upper thread
B — in the bobbin case

Important:

The sewing machine needle has a long groove at the front. It must be possible for the thread to lie completely in this groove while sewing, otherwise wrong stitches and broken threads result, in addition to an unsightly stitch pattern. The thickness of the needle must therefore correspond as always to the thread thickness. In addition, synthetic cordonnet is being used increasingly.

Hence the golden rule is:
When cordonnet as upper thread
Needle No. 110

It is quite possible that for certain kinds of fabric even a needle No. 100 (possibly No. 90) produces a perfect result.

Sew a trial sample

A. Cordonnet as upper thread

Needle No. 110

Presser foot 000, if necessary cording foot 499
Lower thread normal sewing thread or synth. thread

Stitch width 0
Stitch length 4
Needle position centre
Automatic 0 (model 900 knob (14) ---- (A)
Feed-dog to sewing

Sew a trial sample.

B. Cordonnet in the bobbin case

If the work cannot take the thick no.110 needle, the cordonnet thread must be sewn as lower thread. In this case, work is done on the back of the material if the sewing line is not visible, e. g. when sewing-on pockets, they are first sewn on from the right side with darning thread (contrasting colour), stitch length 4. This basting seam provides the sewing line on the back and is easily removed at the end.

There are two possibilities of sewing cordonnet from the bobbin case.

Normal backstitch

Needle No. 80 Presser foot No. 000

Upper thread normal sewing thread or synth, thread colour as cordonnet

Stitch width 0
Stitch length 4

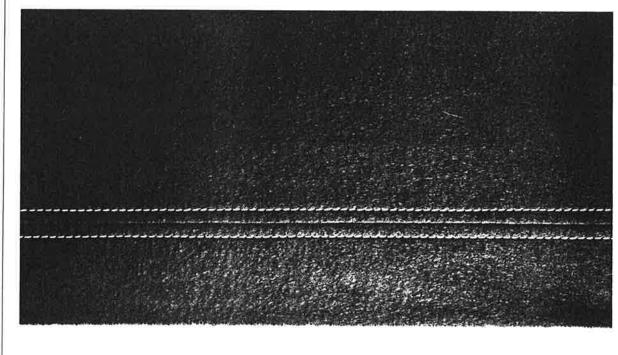
Needle position

centre

Automatic 0 (model 900 knob (14) ----- (A) Feed-dog to sewing

Place bobbin with cordonnet in case (use cordonnet case, it is identified by a black flap). **Sew a trial sample.**

Standard straight stitch: stitch length 4



Saddle stitch

hook) (Only for Bernina machines with CB-bobbin

needle and zigzag stitch (not blindstitch). 4 mm), this can be obtained using the Magic If a particularly long stitch is required (over

Thread upper eye of Magic needle

Presser foot No. 000

thread colour as cordonnet Upper thread normal sewing thread or synth.

Stitch width

Needle position Stitch length 2-4centre

0 (model 900 knob (14)

Automatic

WWWW (B)

Feed-dog to sewing

Place cordonnet in bobbin case as in 1.

material. Work is again performed on the back of the

Sew a trial sample.

basting) at the left-hand needle penetration. Warning: the decorative seam is formed (as with

thread with this needle. See introductory com-Therefore cordonnet cannot be sewn as upper The Magic needle is only available as No. 80.

Fancy saddle stitch

tive fancy saddle stitch. The Bernina universal stitch produces an attrac-

Presser foot No. 000 Thread upper eye of Magic needle

Upper thread normal sewing thread or synth, thread

Stitch width Colour: contrasting with cordonnel

Stitch length Needle position centre

Automatic No. 3 7474 (Nr. 4 Kl=807/810)

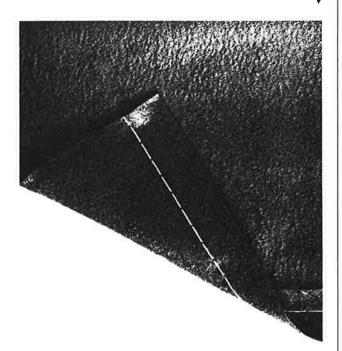
model 900 Knob (14)

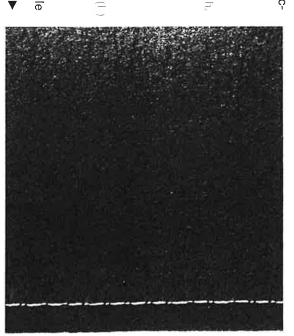
Feed dog to sewing

Sew a trial sample.

Saddle stitch and fancy saddle stitch are suitable for soft materials.

Fancy saddle stitch





a) the needle is inserted properly (the examine whether: machine. If breakdowns do occur then ing (call authorized Bernina dealer to

back); flat side of the needle must be at the

b) the correct needle is being used (see needle and thread table);

c) the machine is claned properly. Lift free arm cover plate and remove sewing

d) the hook race is clean and oiled;

between the thread tension discs or 5. Needle breaks. Can have the followunder the bobbin case spring; e) there are pieces of thread caught

f) hand wheel is secured properly.

knob (21) is at position «0». ensure that the marker of the buttonhole g) Before starting to sew please always

the following causes:

preferably at a Bernina dealer); a) the thread is too tight;b) use of inferior needles (buy them

c) needle inserted wrongly. Flat side must be at the back;

d) the needle is blunt or crooked

e) poor quality or knotted thread.

Thread has dried out due to long stor-

Bernina dealer); needle and needs repolishing (bring f) the needle plate hole is pitted by the free arm cover plate to authorized

g) hjook point is damaged (call authorized Bernina dealer).

3. If bottom thread breaks. Can have the following causes:

a) the bottom thread tension is too tight; ly (call authorized Bernina dealer); bobbin case;

caused by incorrect handling of the aged by the needle and needs repolish- movement. The machine must be dischange needle plate).

4. Faulty stitches. Can have the following causes:

needle bar!); correctly (push needle right up in the b) needle is crooked or not inserted a) wrong needle. Use system 705 B only;

c) low quality needle, roughly polished

ing causes:

tightened; a) needle clamp screw is not sufficiently

2. If the upper thread breaks. Can have should always be withdrawn to the rear); b) the material was withdrawn towards plate and broke. in, therefore it bent, touched the throat c) when sewing over thick part material was pushed whilst the needle was still the operator and needle bent (material

or even containing knots is used d) when cheap cotton, irregularly twisted

seam results: 6. Seam irregularities. A bad uneven

thread tension discs; a) if thread remnants are between the

bobbin case tension spring b) if thread remnants are under the

7. Machine runs slowly

(call authorized Bernina dealer); a) Motor does not function properly

b) foot starter does not function proper-

b) bobbin is crushed and jammed in the c) tension of driving belt is either too tight or too loose;

> mantled and cleaned. Call Bernina dealer;

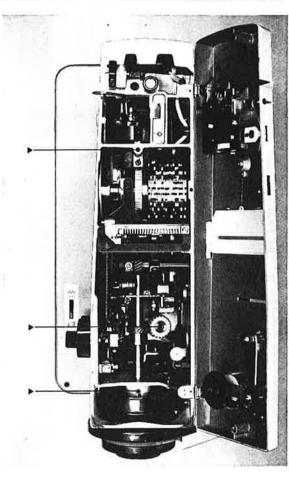
room. e) machine has been standing in a cold

pert, please take along accessories and foot starter. When you bring your machine to an ex-

How to avoid breakdowns

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Cleaning and oiling



The main oiling points under the top cover of the machine.

are left beneath the stitchs plate and after 3—4 hours of sewing around the shuttle during sewing. Open Remove bobbin case. stitch plate and clean shuttle. Cleaning the machine. Scraps of thread

Clean and oil shuttle. 1-2 drops of oil

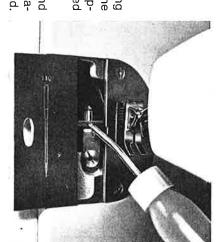
After 30—45 hours running (depending on the country and climate) the machine and stain machine and material should be oiled. If too much oil is applied the excess will drain off unused

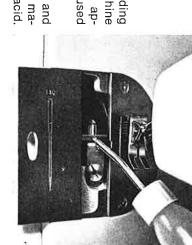
Obtainable at all Bernina dealers. chine oil only, free from resin and acid not afterwards. Use clear sewing ma-Always oil the machine before use and

free running and long life. Proper oiling of the machine assures its

marked in red All the oiling points on the machine are

oiling bushings and thus need no oiling Unmarked points are provided with self-







Please observe the sewing position while sewing. The moving needle is a

Important note (safety regulations)

disconnected from the power supply by pulling out the plug from the socket source of danger (danger of Injury to fingers). The sewing machine should be

when changing the needle, presser foot, bobbin or needle plate, when stop-

ping work without supervision and during servicing (cleaning)

	Bernina Dealers' note guarantee work	Bernina Dealers' notes regarding instructions, home calls and possible guarantee work
	Date	Notes
Subject to changes in design from those shown in text and illustrations		