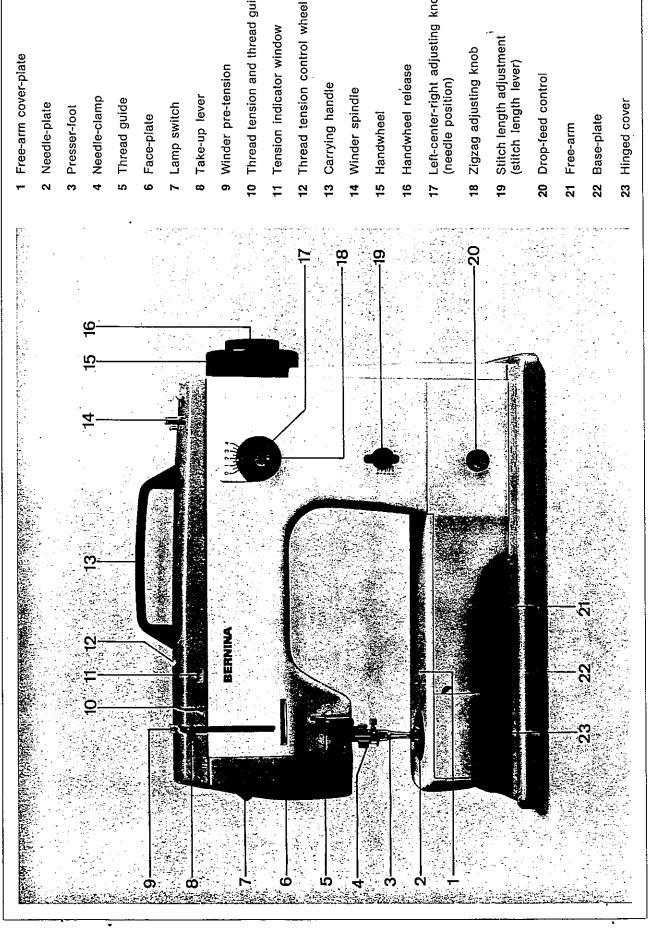
BERNINA

Instruction-manual

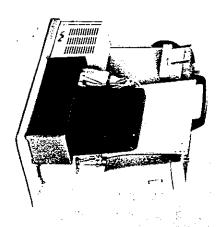
•		·	

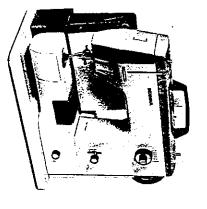


- 10 Thread tension and thread guide
- 11 Tension indicator window
- 17 Left-center-right adjusting knob (needle position)
- Stitch length adjustment (stitch length lever)

Electrical Connection

The container, which can be fitted on the free-arm, is used to house the foot starter with cable and the Bernina-Instruction manual.



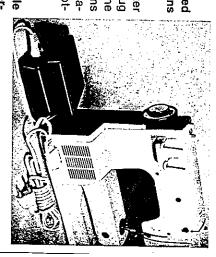


Connecting to supply

Warning! First compare voltage specified on machine with the existing mains voltage.

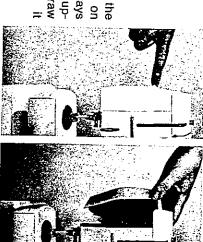
Fit special plug on foot-starter. After inserting the special combination plug for mains and starter connection in the machine, only then connect the mains plug with the socket and start the machine by pressing lightly on the foot-board of the starter.

Warning! The special connecting cable may only be used for connecting Bernina sewing machines.



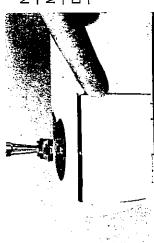
Light switch. By pressing switch the dazzle-free light can be switched on and off. Pull out light cover sideways to change the bulb. Press bulb upwards, turn anti-clockwise and draw downwards. To insert bulb, turn it clockwise.

Sewing lamp: 15 watts.

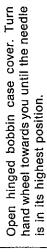


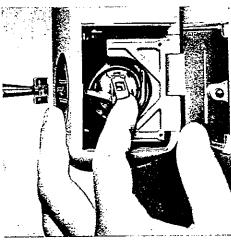
Bobbin and Case

Removing the bobbin case



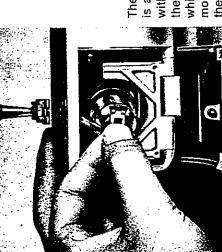
3 N. E.	Needle system 705 B	very fine 60	fine 70	medium 80	strong 90	large 100
A	Mercerised sewing thread (3 ply)	i (3 ply)	50	50	40	40
	Darning thread (2 ply)	50	30–50	30		





Correct choice of needle and thread.

Use only needle system 705 B for Bernina sewing machine 800. Please ensure that the needle and thread used conform to the table above. The usual needles for sewing are numbers 80, 90 and 100 while those for darning are numbers 70 and 80.



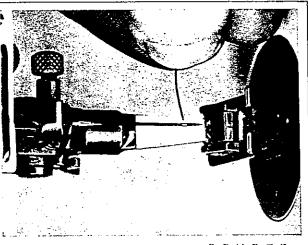
Open the hinged latch with thumb and

forefinger of the left hand and remove the bobbin case. The insertion of the

bobbin case is carried out in the same

manner.

The presser foot wiht 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.

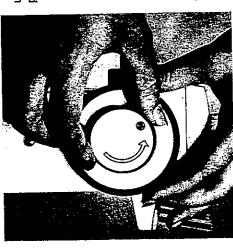


Release handwheel: hold handwheel with the left hand. Release handwheel with the right hand by turning the knurled screw.

Place bobbin on winder spindle and press to the right. The winder ist then switched on.

Draw thread from the reel clockwise round the pre-tensioning device and from there — as shown in the picture — take to the mounted bobbin. Start motor with the foot starter.

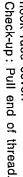
When the bobbin is full, the winding process stops automatically. Switch off motor, remove bobbin and push winder spindle back to left. Then re-tighten knurled screw on handwheel.



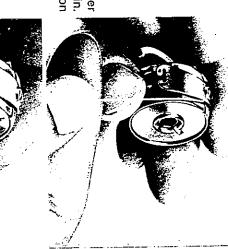
Draw thread through tension spring. Do n

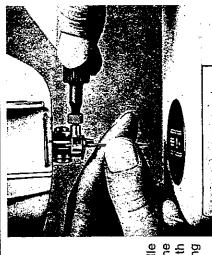
Draw thread through slot and then under tension spring. Do not hold the bobbin. The bobbin must turn in the direction of the arrow when unwinding.

hook. Raise needle to top position by turning the handwheel. As when removing the bobbin case hold it by the hinged latch with thumb and forefinger of the left hand. Hold bobbin case in such a way that the extension arm is directed upwards and fits into the niche of the hook race cover.

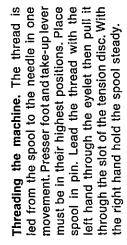








Fixing the needle. Loosen the needle clamp screw half a turn. Push the needle upwards as far as it will go with the flat side at the back and facing away. Tighten needle clamp screw.





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



thread will come up through the needle wheel towards you until the take-up lever is in its highest position. Pull the needle thread slightly and the bobbin Bringing up the bottom thread. Hold needle thread loosely. Now turn the hand hole. Pull both threads under the presser boot and lay them there sideways.

Lowering the feed dog. For certain types of sewing, in particular darning, the feed dog must be lowered.

BEHNINA

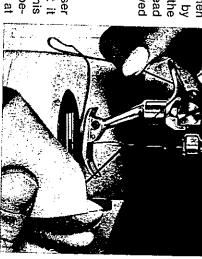


Darning. Turn control knob (20) to the left as far as it will go towards the knob to right as far as it will go towards darning sign. For normal sewing turn the zigzag and straight stitch sign.

Changing the presser feet

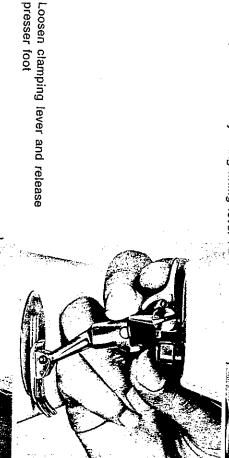
easily by pulling to the rear. tension and the material can be removed sewing is finished. Raise presser foot by machine; this will release the top thread means of the lever at the back of the sition by use of the handwheel when the take-up lever (8) into its highest po-Removing work. It is essential to bring

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



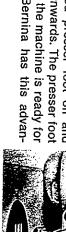
achieve easy and perfect work. The pa-The work is done in no time. The Bernina principle: "Just clip it on!" lever permits quick and easy changes. tented Bernina presser foot clamping type of work. Only in this way will you Use the correct presser foot for each

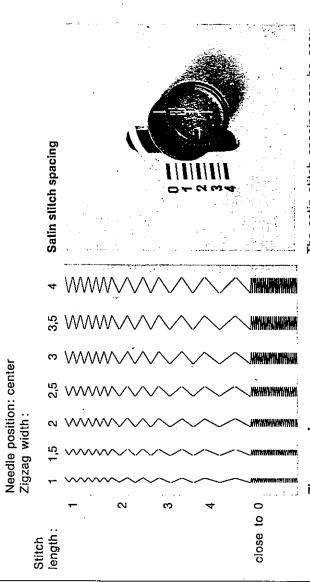
Raise presser foot by using lifting lever



presser foot

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



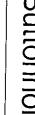


Zigzag sewing

Setting the zigzag spacing; knob 18. The line on zigzag 18 allows the stitch spacing to be read on the scale at the back. For straight stitching the knob pointer is at «0». If the knob is turned to the right — from 0 to 4 — the needle displacement becomes greater. The higher the number, the wider the zigzag stitch. The knob may be moved while sewing but when the machine is stationary only if the needle is out of the material.

The satin stitch spacing can be accurately adjusted with the stitch length adjusting knob (19).

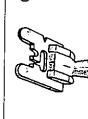
Turn knob (19) clockwise to the right until it stops. The marker line on the knob is vertical (stitch length = «0»). You can then adjust the satin stitch spacing — depending on material and thread — by turning the knob to the

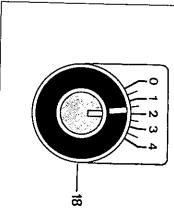


đ



Needle: 80-70 Thread: 30 or 50

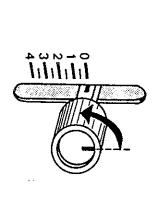




Zigzag 1,75 (Spring setting)



case. cotton through hole in finger of bobbin For sewing a buttonhole, thread bottom



Needle Position: left

adjusting knob (19), be accurately set with the stitch length The buttonhole satin stitch spacing can

depending on material and thread - by until it stops. The marking line on the turning knob (19) to the left. you can set the satin stitch spacing knob is vertical (stitch length = 0). Then Turn knob (19) clockwise to the right

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

ಕ

Adjustment of the Buttonhole

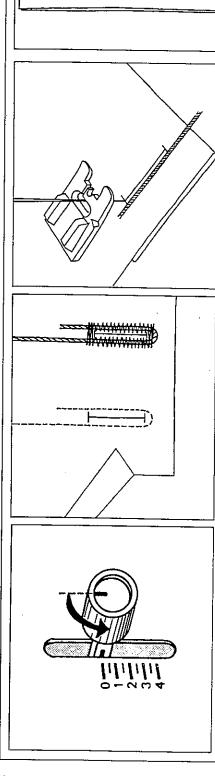
zigzag knob slightly the spring settings end of the buttonhole. By turning the 3-31/2 width for the bar tacks at each of the buttonhole, the other for zigzag zigzag 1,75 satin stitch for the beads can easily be felt. been built-in for the buttonhole: one for Two mechanical spring settings have

Sewing the Buttonhole

of foot opening. If not do one stitch, and check that needle comes to middle change zigzag or needle position. Move needle downwards to foot level with the guide on the buttonhole foot. terial. Set the required buttonhole length Mark desired buttonhole length on maturning handwheel by hand. But **never**

- Satin Stitch: Sew first bead of buttonwise. Lower foot again. in work in the middle of the foot. Lift hole to required length. Set needle foot. Turn work completely clock-
- stitches for bar tack. Bar Tack: Lift needle out of work. spring setting). Hold work firmly. Sew Set zigzag to approx. 3 width (using
- Satin Stitch: Lift needle out of work. spring setting) and sew satin stitch Set zigzag back on to 1,75 (using for second bead.
- N 3 (using spring setting). Hold work firmly. Sew stitches for bar tack. Bar Tack: Lift needle out of work. Adjust zigzag again to width approx.

Finishing off: Set zigzag on 0 and sew a few stitches, still holding work firmly.



Set the buttonhole satin stitch

be used. The method of adjusting is the behind. tonhole on a remnant of the material to With knob (19) the stitch density can It is recommended to make a trial buteasily be regulated to suit the material. same as for the satin stitch.

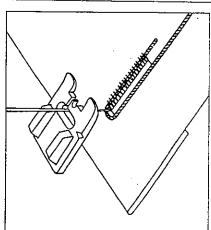
button will pull, place the work to be sewn so that the edge of the material lies in front of the sewing foot and not

How to sew the buttonhole with reinforcing cord

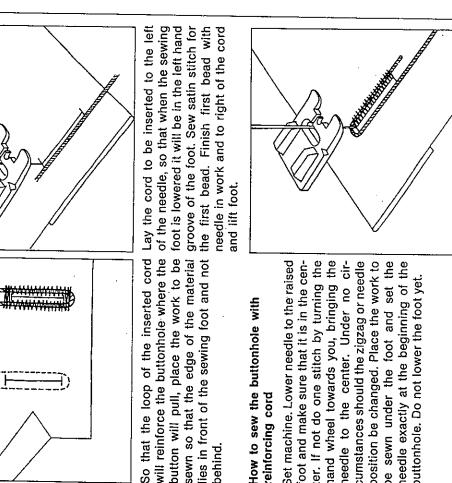
Set machine. Lower needle to the raised ter. If not do one stitch by turning the hand wheel towards you, bringing the cumstances should the zigzag or needle position be changed. Place the work to be sewn under the foot and set the needle exactly at the beginning of the buttonhole. Do not lower the foot yet. oot and make sure that it is in the cenneedle to the center. Under no cir-

will reinforce the buttonhole where the of the needle, so that when the sewing foot is lowered it will be in the left hand groove of the foot. Sew satin stitch for the first bead. Finish first bead with needle in work and to right of the cord and lift foot.

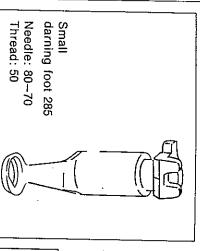
ACASADINA TARBASINA DI REFERMANTANI



clockwise with right hand until cords bead now lies under right hand groove Hold cord in left hand and turn work are parallel. Lower foot so that first of foot. Continue sewing as described.



ANTONIA PARTITORIA



Darning materia

Stitch width: Stitch length: Drop feed control: center lowered

Needle position:

A careful darn is done in 3 runs

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

Main faults when darning

How to darn correctly

blunt or the stitching will draw little Make the turning points of each row Frequent thread breaking -- work guided irregularly.

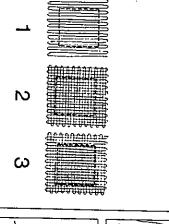
holes at the ends. Beginners may prefer Poor stitch (looping on top) - work moved too quickly.

pends on regular guiding. The quick mastering of this work de-

work moved too slowly.

When wrong side of work is "grainy"

- Therefore:
- Hold the hoop correctly. Always work from left to right (as when writing).
- Move work lengthways (not sideways) for selvedge and weftway.

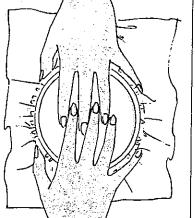


with frequent thread breaks.

this would produce irregular guiding

Not like this...

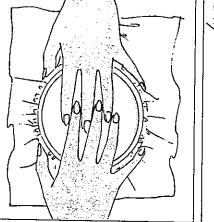
How to hold hoop correctly

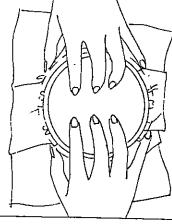


... but like this.

What is to be guided must be firmly neld.

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)





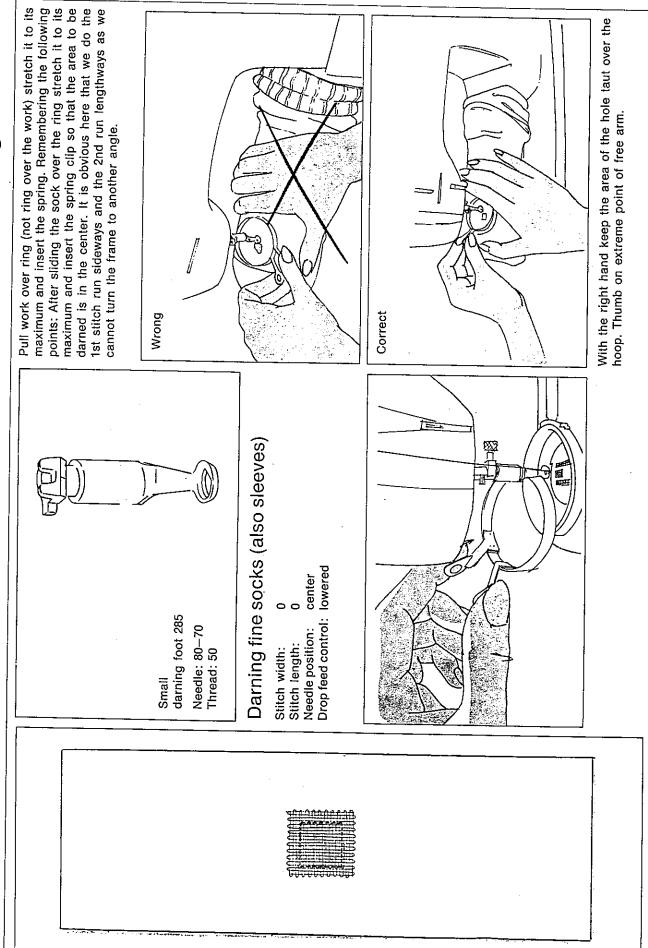
Then pulled back a little.

outer fingers. The frame is guided however by the



얺

Take care not to get circles. the L or M movement.



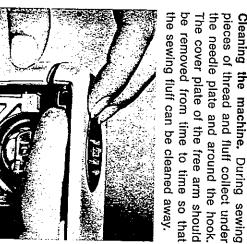
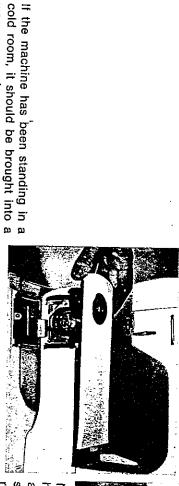
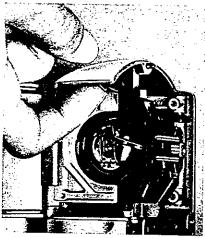


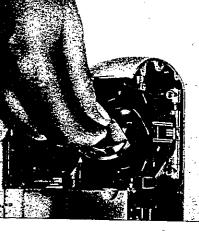
plate with the left hand and press the release lever at the same time with hinged cover. Then hold the cover-Remove presser foot or needle, open he forefinger of the right hand. ake off cover-plate from free-arm.



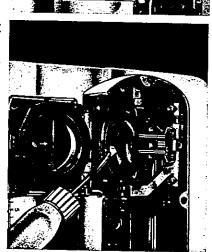
so that it can warm up to room tempera- is free and warm room about an hour before use, ture and the oil in the bearings will cleaned as also can the lower side of After removing the cover, the feed dog the needle plate on the arm-cover. can then be properly



race cover can now be turned down. Cleaning and oiling the hook. Remove bobbin case. With the forefinger of the locking bridge together with the hook together with the shuttle race cover, right hand press latch to the left. The



such as screwdrivers and scissors for removing thread particles. and cotton duster. Never use hard tools hook race cleaned with a small brush Now the hook can be taken out and the



into position. Test by turning the hand-When the bobbin case is inserted the place arm cover and re-screw tightly. wheel as a precautionary measure. Remaking sure that the spring snaps back again with the left hand. Lock the bridge into the shuttle race. Insert the shuttle After cleaning pour a few drops of oil hinged shuttle cover can be closed.

again become fluid.

- ed by incorrect handling of the machine. If breakdowns do occur then examine 1. Generally, most breakdowns are caus-
- llat side of the needle must be at the a) the needle is inserted properly (the
- b) the correct needle is being used (see needle and thread table);
- c) the machine is cleaned properly. Lift free arm cover plate and remove sewing
- the hook race is clean and oiled;
- e) there are pieces of thread caught between the thread tension discs or under the bobbin case spring;
 - f) hand wheel is secured properly.
- 2. If the upper thread breaks. Can have the following causes:
- a) top thread is too tight;b) use of inferior needles
- use of inferior needles (buy them prec) needle inserted wrongly. Flat must be at the back; ferably from a Bernina dealer);
- d) the needle is blunt or crooked; e) poor quality or knotted thread. Thread has dried out due to long
- f) the needle plate hole is pitted by needle and needs repolishing (bring
- the free arm cover plate or needle plate hook point is damaged (call authorizto authorized Bernina dealer);
- 3. If bottom thread breaks. Can have 7. Machine runs slowly the following causes:
- b) foot starter does not function proper-(call authorized Bernina dealer) a) Motor does not function
 - ly (call authorized Bernina dealer); a) the bottom thread tension is too tight;
 b) bobbin is crushed and jammed in the bobbin case;

c) needle hole in throat plate is damaged by the needle and needs repolishing (call authorized Bernina dealer to change needle plate).

d) use of low quality oil can block the

movement. The machine must be dis-

mantled and cleaned.

dealer;

e) machine has been standing in a cold

c) tension of driving belt is either too

tight or too loose (call authorized Ber-

nina dealer);

Call Bernina

- 4. Faulty stitches. Can have the following causes:
- correctly (push needle right up in the a) wrong needle. Use system 705 B only; b) needle is crooked or not inserted needle bar!);
- foot starter. c) low quality needle, roughly polished.

pert, please take along accessories and

When you bring your machine to an ex-

- 5. Needle breaks. Can have the follow
 - ing causes:
- a) needle clamp screw is not sufficiently tightened;b) the material was withdrawn towards c) when sewing over thick part material in, therefore it bent, touched the throat the operator and needle bent (material was pushed whilst the needle was still should always be withdrawn to the rear) side
 - d) when cheap cotton, irregularly twist-ed or even containing knots is used.
- 6. Seam irregularities. A bad uneven seam results:
- a) if thread remnants are between the thread tension discs;
- b) is thread remnants are under the bobbin case tension spring.

Important note (safety regulations)

Please observe the sewing position while sewing. The moving

The sewing machine should be disconnected from the power supply by pulling out the plug from the socket when changing the needle, presser foot, bobbin or needle plate, when stopping work without supervision and during servicing (cleaning)