

Preparing the Elna

Opening the Case and Unpacking

Loosen the 4 screws (fig. 3) which are in the bottom of the case so that the machine may be removed from the case.

Open the flap as shown in fig. 4.

Remove the free side of the case as shown in fig. 5.

Take out the machine, the cord, the knee lever or foot control and the accessory box.

Placing the Work-Table

The free side of the case can be used as work-table. Place it as shown in fig. 6.

Closing the Case

To put the machine away, proceed exactly in the opposite sense, holding the fixed part of the case with the left hand at the top. Then, with the right hand, put the free side in place, holding it in the opening for the free arm.

These instructions do not concern flat bed machines, which are not supplied with a carrying case.

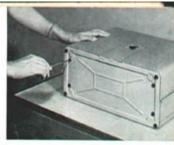
Normal Accessories

The accessory box contains:

- on machine) 1 hemmer foot no. 4
- (5/32")
- 1 darning foot
- darning plate.
- cording foot
- buttonhole foot button foot
- 1 button plate
- 1 buttonhole knife 5 bobbins
- 1 presser foot (already 1 assortment of 10 needles 3 twin needles

 - 6 single « Elna-discs »
 4 double « Elna-discs »
 The « Elna-discs » (3 is already in the Elnagraph regulating device

 - 1 large screwdriver 1 small screwdriver
 - 1 cleaning brush 1 empty oil can (to be filled with Eina oil)



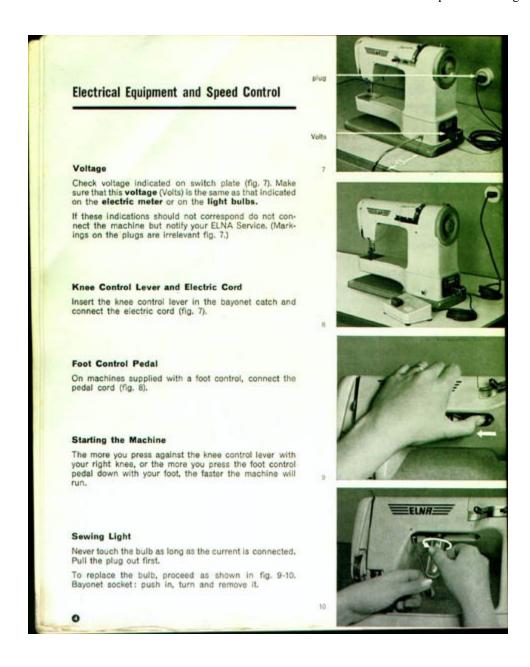


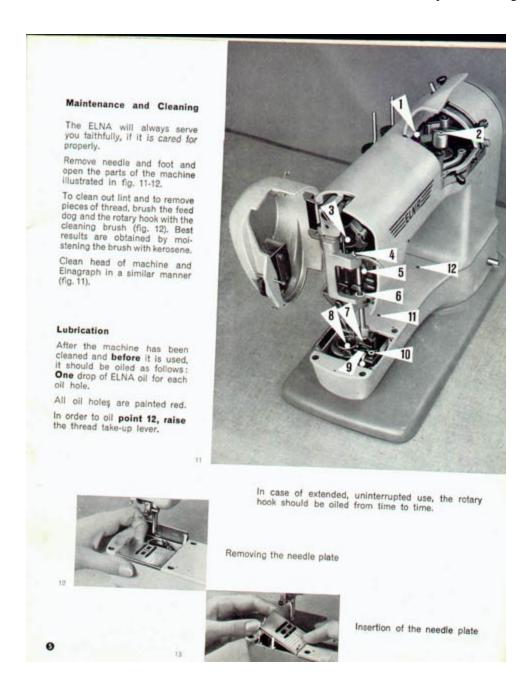


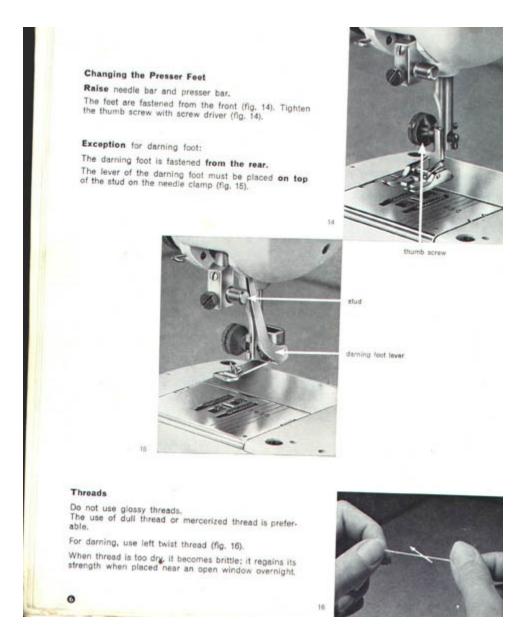


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Needle

Choose threads which are suited to the kind of work to be done and then adapt the needle to the thread.

Needles style 15 x 1 (system 705) Sizes			Thread		Thread local grades	
New	Old	Ame- rican	Cotton	Silk	Cotton	Silk
60 70 80 90 100 110	7- 8 9-10 11-12 13-14 15-16 17-18	00 0 B 1/2 1 2	140-150 100-120 80-100 60-80 40-60 30-50	30 24-30 24-30 20 16-18 10-12		

Needle system used on the ELNA: 15 x 1 (European system 705).

Insert the needle into the needle clamp, the **flat of the** needle toward the rear (fig. 17). Make sure that the needle is pushed up into the clamp as far as it will go, then tighten the screw with the large screw driver. The twin needles are fastened in the same manner.

Bobbin Winding

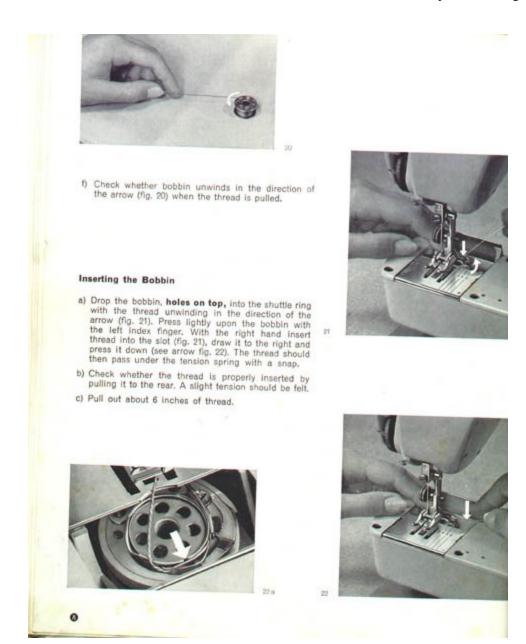
- a) Disengage flywheel (fig. 18).
- b) Pass thread through thread guide and through one of the bobbin holes (fig. 19). Push the bobbin winder to the right. See detail drawing, showing passage of thread through bobbin hole (fig. 19 a). To make sure that the bobbin will wind and unwind correctly, place always the bobbin with the holes on top.
- Wind a few turns of thread on the bobbin, then cut off the end of thread close to the bobbin.
- d) Wind the bobbin while pressing lightly upon the top of the spool with the left hand. The bobbin will stop automatically when it is full.
- e) Tighten the flywheel (turn knob in opposite direction: fig. 18). Cut thread and remove bobbin by pushing bobbin winder to the left.





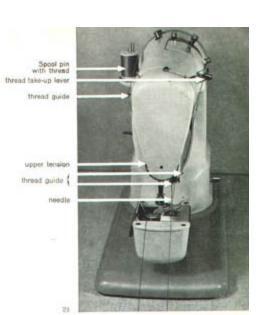






Threading the Upper Thread

- a) Needle bar and presser bar up (fig. 23).
- b) Place the spool on pin.
- c) Pass the thread through the thread guide, then through the slot of the upper tension. Pass it through the thread take-up lever from left to right, then through the thread guides.
- d) Thread the needle from front to back.
- e) Pull out about 6 inches of thread (fig. 24).



The same procedure is used when threading two threads for twin needle work (fig. 26).

Place the right spool — nearest the bobbin winder — so that the unwinding thread will pass between the spool and the casing. Place the left one so that it will turn in the opposite direction. Make sure that one thread will also pass on either side of the separating disc of the upper tension (fig. 25) and through each eye of the twin needle (fig. 26).



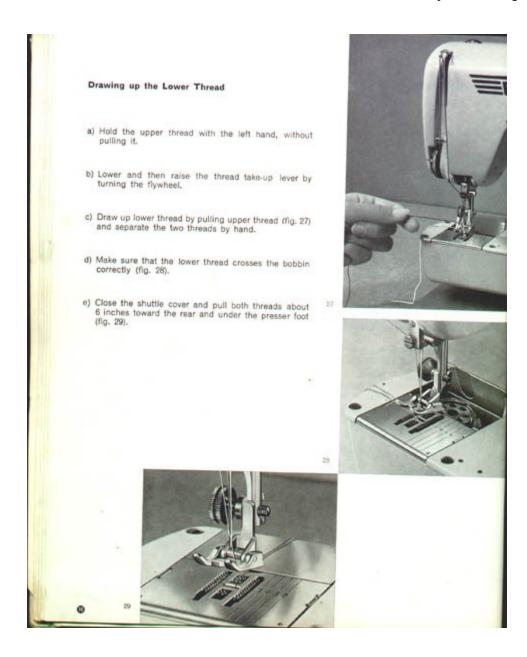




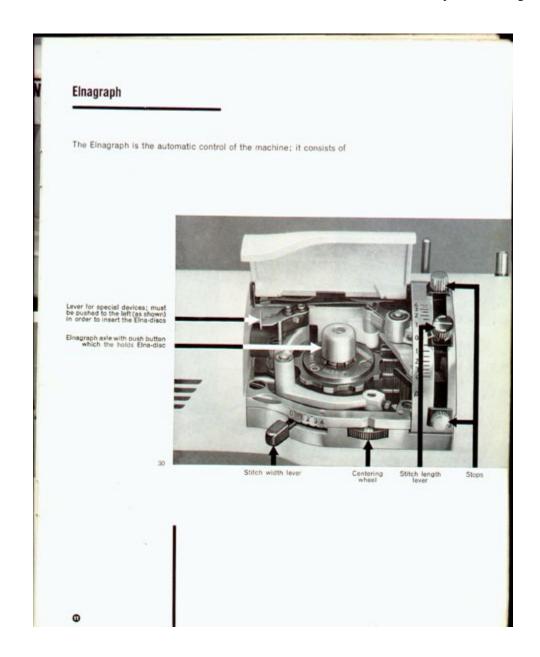
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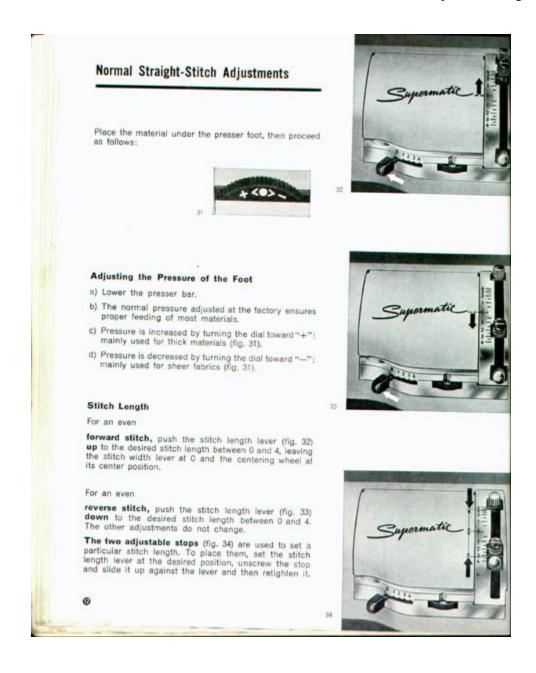
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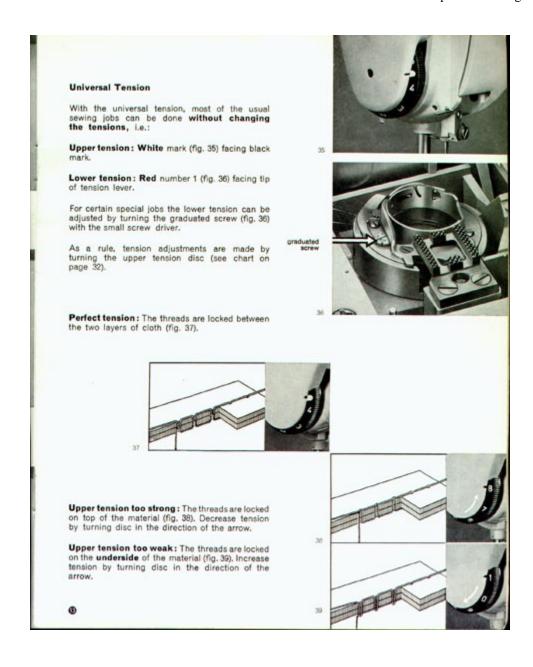
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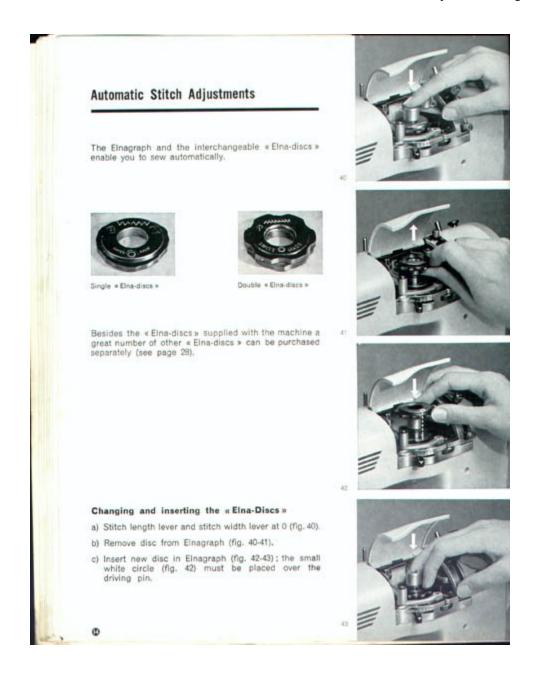


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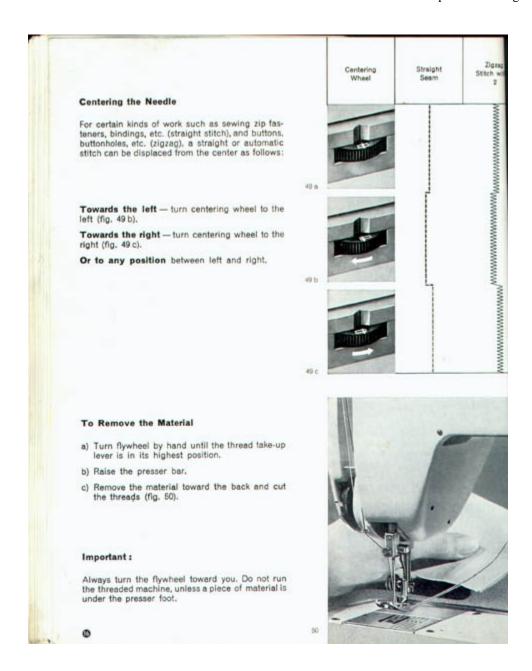


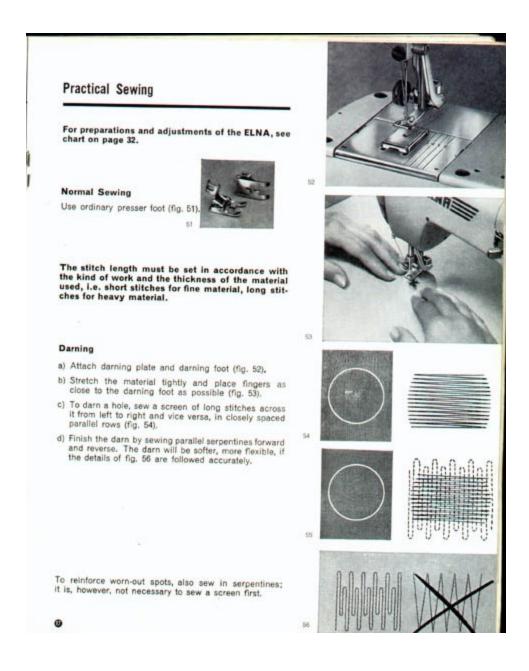


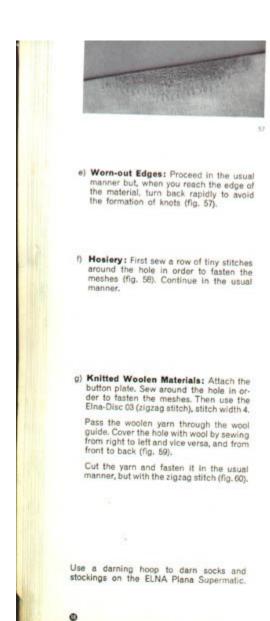








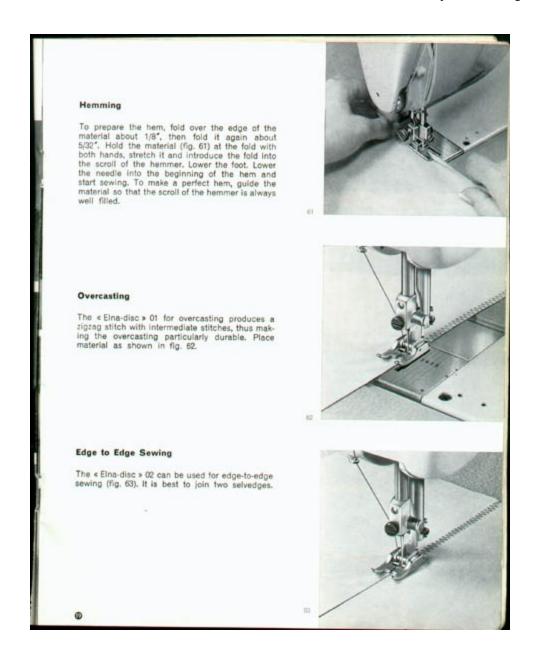








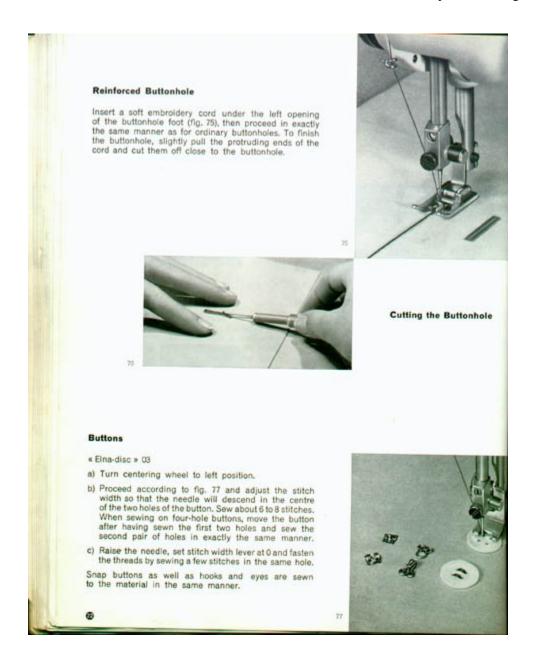


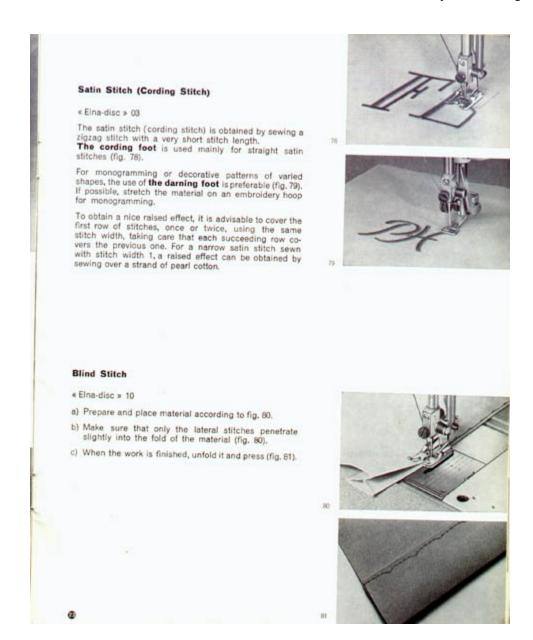




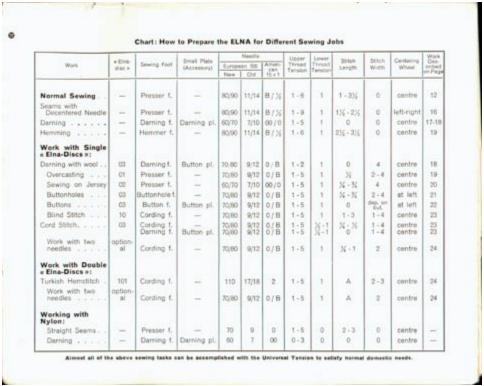
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Minor Disorders and their Rem	edie	•
The Upper Thread Breaks:	pages	
The upper thread tension is too Nove	. 13	The Material Is Fed Unevenly or Insufficiently:
twist thread does not have a le	ft	The peedle plate has
The thread is of poor quality, or it is knotted. The thread is of poor quality, or it is knotted.		The food down
		The pressure of the
The thickness of the	- 6	The Needle Breaks:
The needle is not of the	. 7	The material has been up.
bent. doanty, poorly polished or		the needle plate close to the nits again
The needle has not been inserted correctly The machine needs cleaning	7	or it is bent incorrectly inserted
	5	fabric or thread
The Lower Thread Breaks: The lower thread tension is too tight		The thread is knotted.
the bobbin	13	The upper thread tension is too tight. The needle is poorly centered and strike the needle plate or darning plate.
The thread has not been brought up cor- rectly above the needle plate	7	The Machine Runs Slowly:
	10	The machine has not been
The Machine Skips Stitches: The machine is incorrectly threaded		Lint and pieces of to-
	9	the rotary hook.
The needle is not to	7	The machine is too cold (should be placed in a warm room for a while before being used)
The needle has been income!	7	The Rotary Hook Is Noisy:
The thread is too thick for the size of the	7	The rotary book is too do
The Stitches Are Uneven:	CA-V.	The coton, but t
The two threads do		
Fither of the two the tensions 1	3	The Machine (Rotary Hook) Is Blocked: A loose piece of thread may have become stuck in the rotary hook.
The machine is in-	3	by hend in both discountrible flywheel
The lower throad to 8-9		Remove the remains of the thread. Oil the
The bobbin does not wanted	. (thread for a short while
		The «Elna-Disc» Cannot Be Inserted
The needle does not suit the size of thread or the type of material 7	4	Set the stitch length and stitch width regu- ating levers at "0". The lever for special devices must be pushed to the left



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