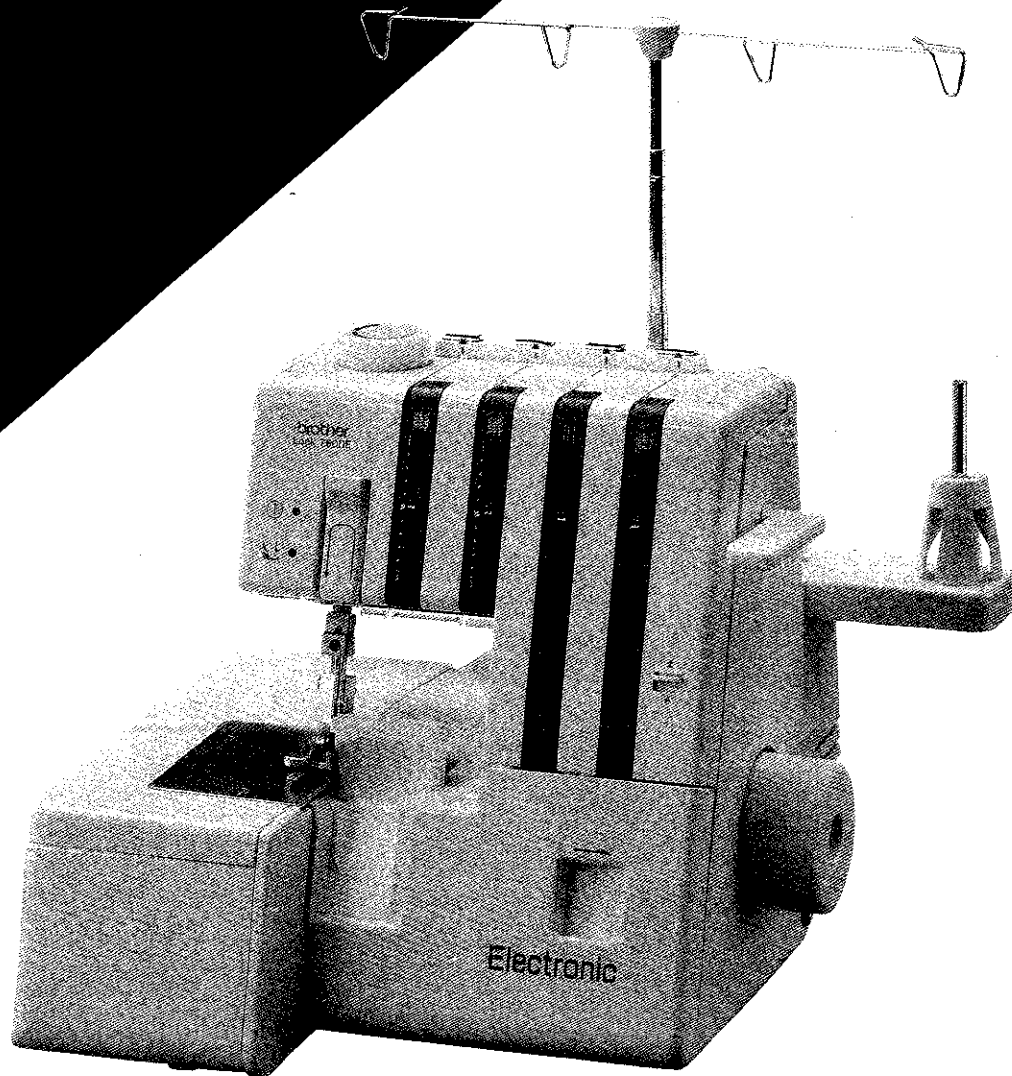


brother.

HANDBOOK FOR HOMELock SEWING MACHINE

MODELS 760DE/760D/
760/730D/730



CAUTION!

WHEN THREADING, REPLACING NEEDLE OR LIGHT BULB, BE SURE TO TURN OFF THE MAIN POWER SWITCH OF THE MACHINE.

WHEN THE MACHINE IS NOT IN USE, IT IS RECOMMENDED THAT THE ELECTRIC SUPPLY PLUG IS DISCONNECTED FROM THE WALL SOCKET TO AVOID ANY POSSIBLE HAZARDS.

**CONGRATULATIONS ON
CHOOSING A OVERLOCK!**

Your machine is a high quality, easy-to-use product. To fully enjoy all the features incorporated, however, we suggest that you study this booklet.

If you need more information regarding the use of your Homelock, your Brother dealer is always happy to be of service.

Enjoy Yourself!

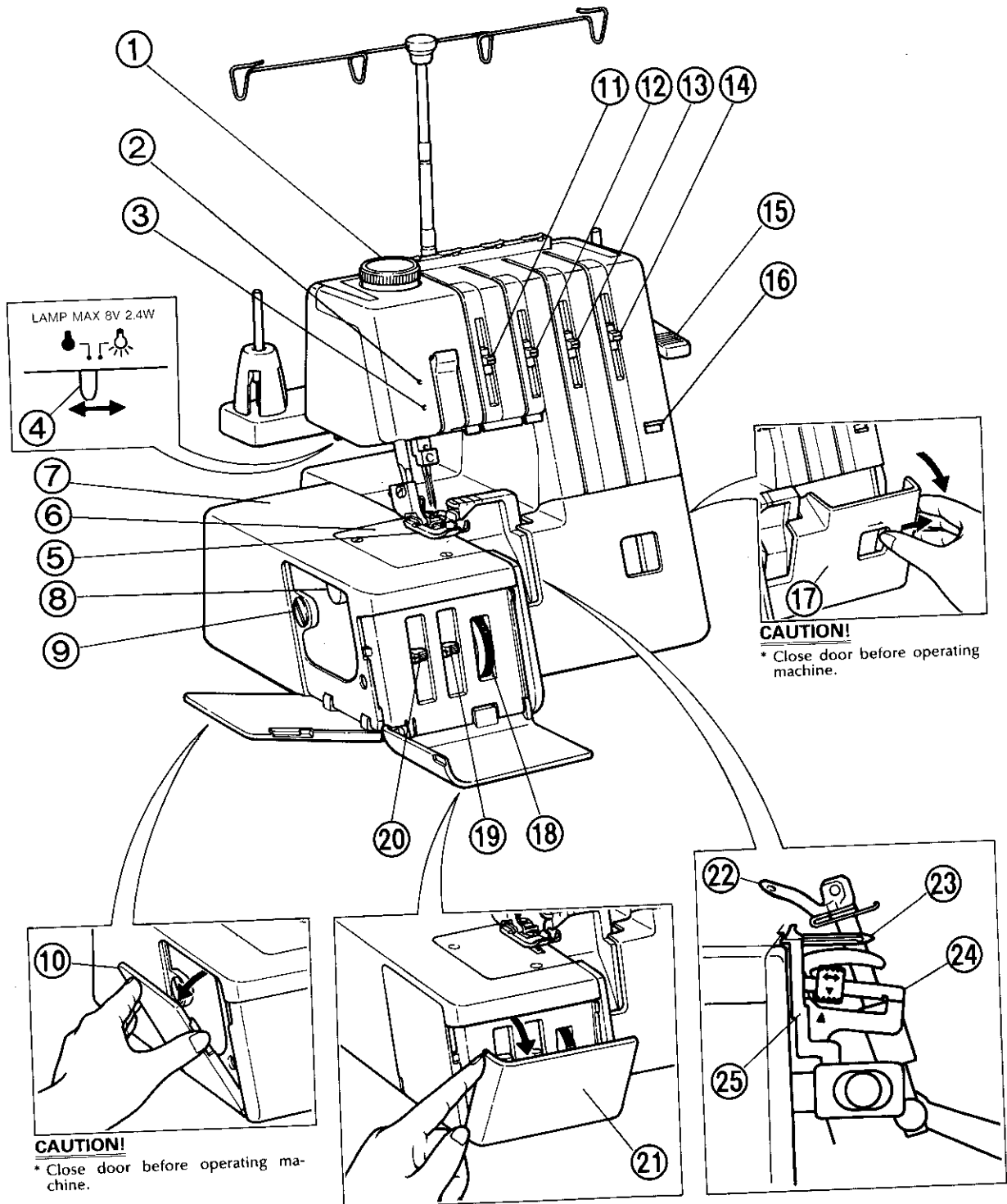
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CAUTION

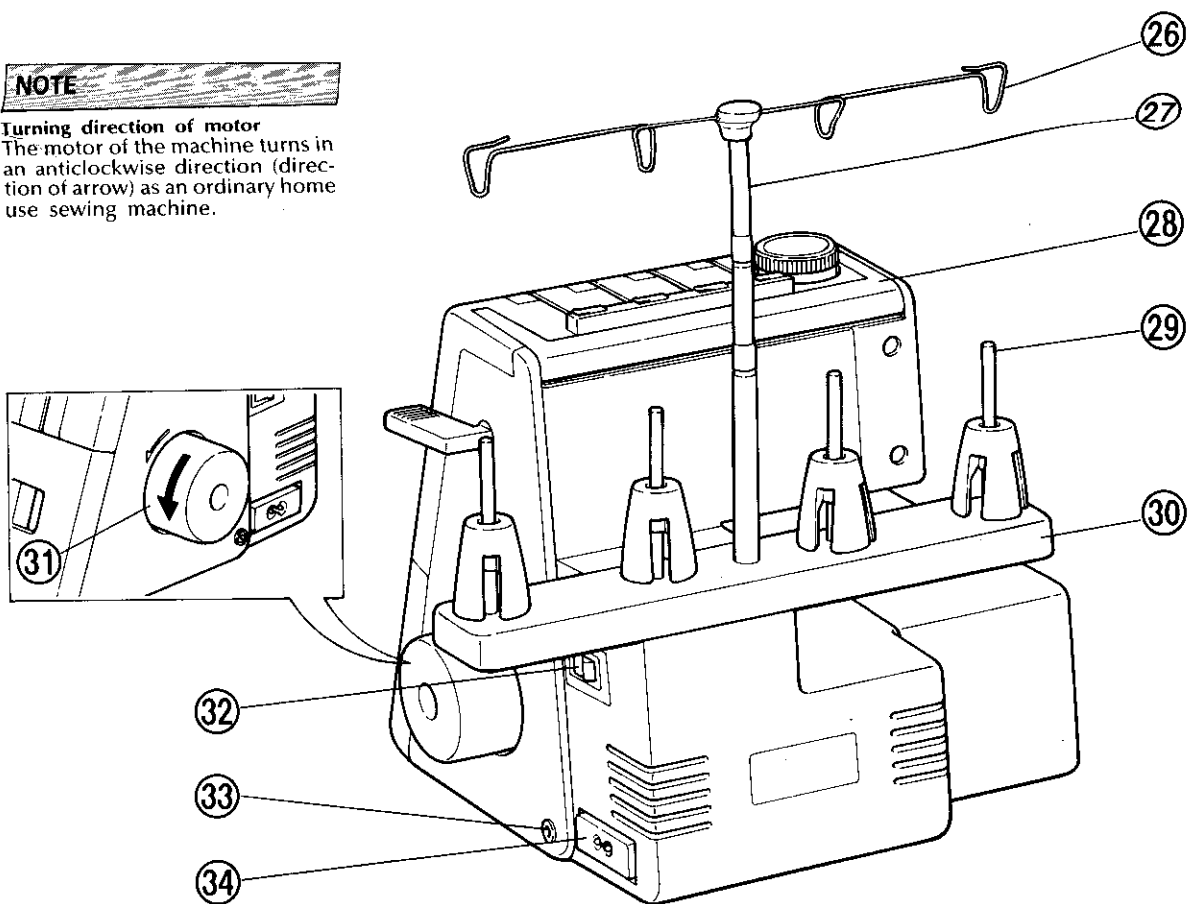
- ON P.10 When pushing the underlooper threading lever, always make sure that the two red triangle marks meet each other as per illustration.
- ON P.21 When adjusting the stitch width control dial, always raise the presser foot lever.

NAMES OF PARTS AND THEIR FUNCTIONS



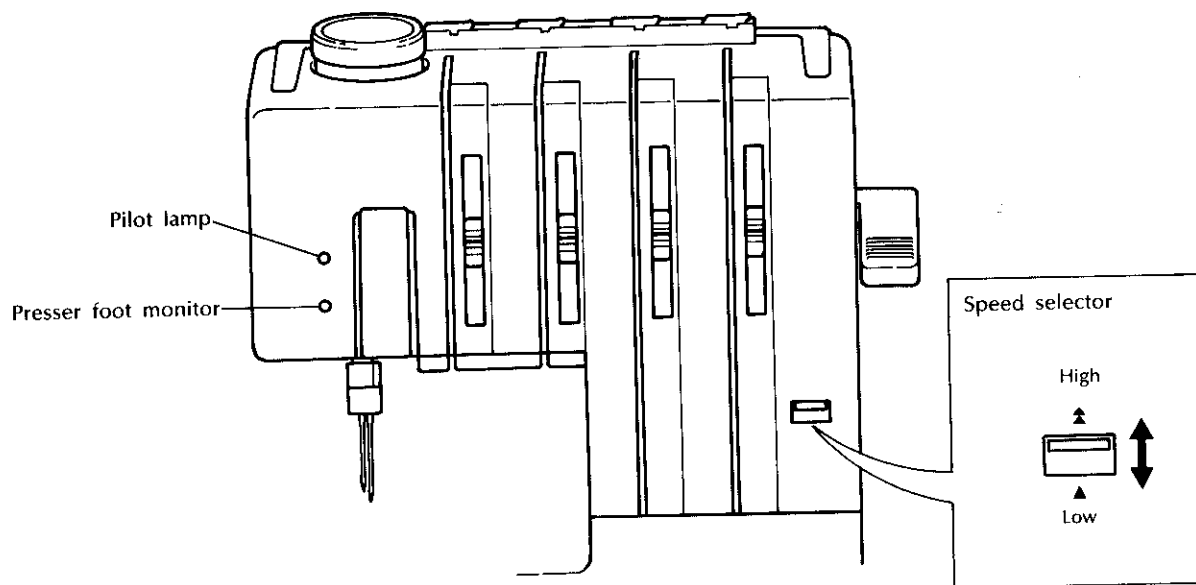
NOTE

Turning direction of motor
The motor of the machine turns in an anticlockwise direction (direction of arrow) as an ordinary home use sewing machine.



- | | | |
|-----------------------------------------------------------------------|------------------------------------------------------|-----------------------------------|
| ① Pressure adjustment dial | ⑬ Thread tension lever for overlooper thread (green) | ⑳ Underlooper threading mechanism |
| ② Pilot lamp (760DE) | ⑭ Thread tension lever for underlooper thread (blue) | ㉑ Movable stitch tongue |
| ③ Presser foot monitor (760DE) | ⑮ Presser foot lever | ㉒ Thread holder |
| ④ Light switch | ⑯ Speed selector (760DE) | ㉓ Thread guide pole |
| ⑤ Presser foot | ⑰ Front cover | ㉔ Handle |
| ⑥ Needle plate | ⑱ Stitch width control dial | ㉕ Reel pin |
| ⑦ Material plate cover | ㉒ Stitch length control lever | ㉖ Reel support |
| ⑧ Blade retracting knob | ㉓ Differential ratio control lever (730D/760D/760DE) | ㉗ Handwheel |
| ⑨ Material plate cover set screw | ㉔ Control cover | ㉘ Main power switch |
| ⑩ Side cover | ㉕ Overlooper | ㉙ Controller jack (760DE) |
| ⑪ Thread tension lever for left needle thread (yellow) | ㉖ Underlooper | ㉚ Power cord socket |
| ⑫ Thread tension lever for right needle thread (red) (760/760D/760DE) | | |

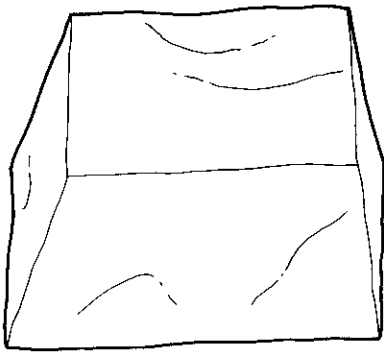
ELECTRONIC FUNCTIONS (760DE)



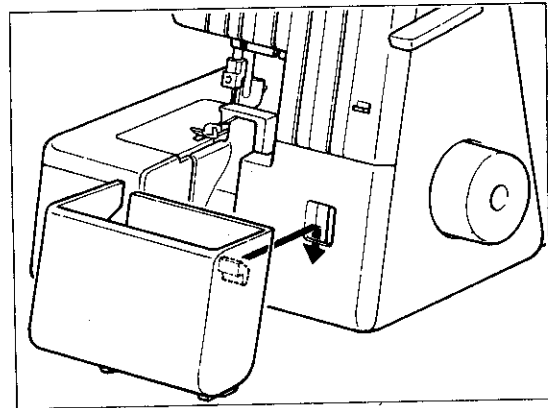
760DE has following electronic functions:

- 1) Electronic speed control in machine body
 - a. Two speed selection by speed selector (1500/700 spm)
 - b. Excellent needle penetration also at low speed
 - c. Steady speed control
- 2) LED monitor
 - a. Pilot lamp
 - Main power
 - Alarm for overload protection
 - When the machine is locked, the pilot lamp flashes with sound. At the same time, the machine stops automatically to avoid overload.
 - b. Presser foot monitor
 - Flashes when presser foot is in upper position. In this case, machine does not run even if you depress foot controller.

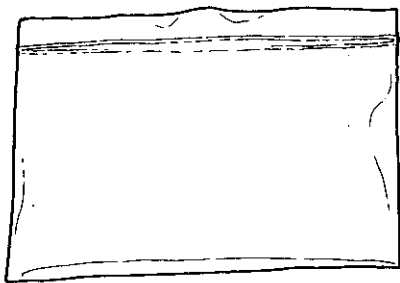
ACCESSORIES



SOFT COVER



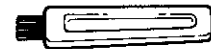
DUST BOX



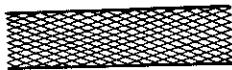
ACCESSORY BAG



OILER



CLEANING BRUSH



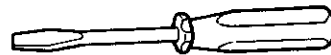
NET
(760, 760D, 760DE: 4 PCS)
(730, 730D: 3 PCS)



THREAD SPOOL CAP
(760, 760D, 760DE: 4 PCS)
(730, 730D: 3 PCS)



TWEEZERS



SCREW DRIVER (730, 730D)



NEEDLE SET
ORGAN HA x 130: 2 PCS
BALL POINT NEEDLE: 2 PCS

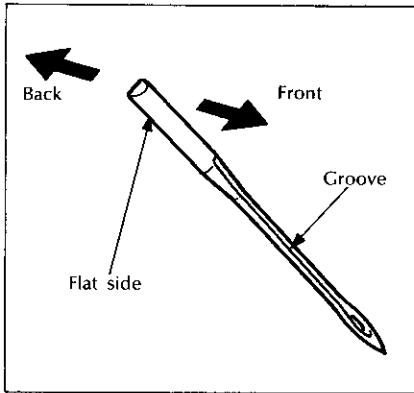


SCREW DRIVER
(760, 760D, 760DE)



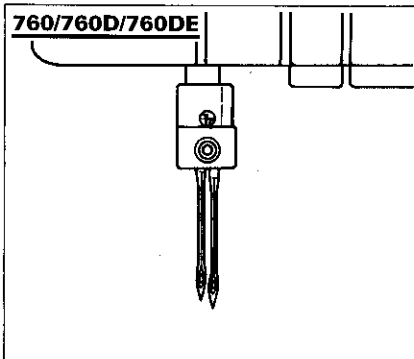
HEXAGONAL WRENCH (760, 760D, 760DE)

NEEDLE



Home use needle (ORGAN HA x 130, SCHMETZ 130/705H) should be used.

It is recommended to use ball point needles when sewing knitted garments.



To remove the needle

- 1) Turn the main power switch to off.
- 2) Turn the handwheel anticlockwise by hand until the needle is in its highest position.
- 3) Loosen the needle set screw with screw driver (730/730D) or hexagonal wrench (760/760D/760DE) and remove the needle.

To insert the needle

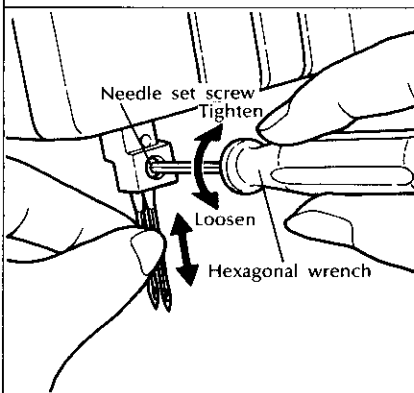
- 1) Turn the main power switch to off.
- 2) Turn the handwheel until the needle bar is in its highest position.
- 3) Hold the needle with its flat side away from you and insert it as far as it goes.
- 4) Tighten the needle set screw securely.

NOTE

Two needle models (760/760D/760DE)

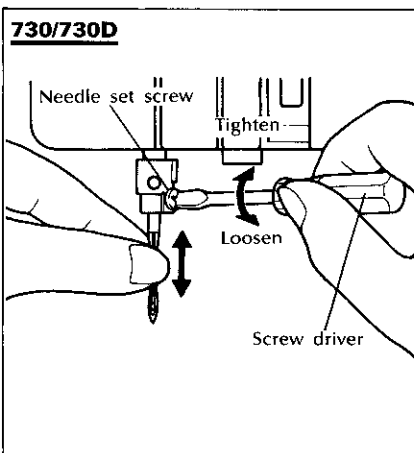
* On two-needle models, we suggest you hold the two needles by one hand and then you insert them at the same time.

* When the needles are inserted correctly, the right needle should be set slightly lower than the left one.



CAUTION!

The needle set screw holds both needles. Bear this in mind when you loosen the set screw to exchange one or both needles.



MOTOR

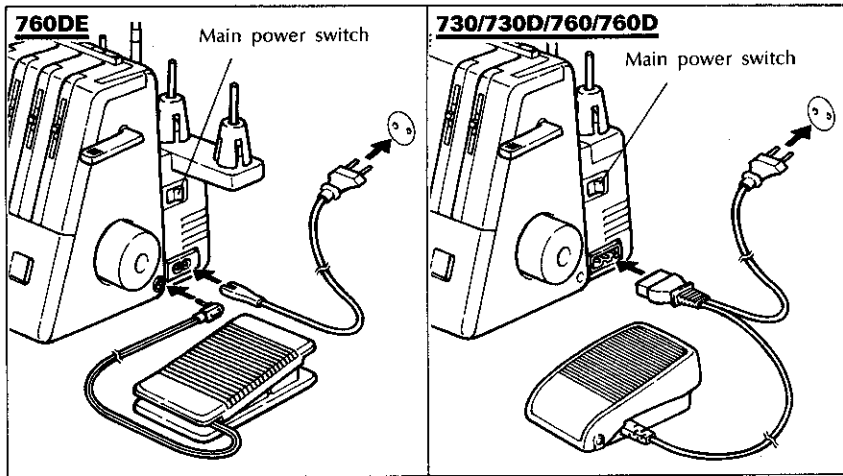
- * The maximum operating speed of this sewing machine is 1,500 stitches per minute, which is quite fast compared to the operating speed of 600 to 800 stitches per minute for the ordinary home sewing machine. It should be noted that the motor of this sewing machine turns in the same direction as the motor in an ordinary home sewing machine.
- * The bearings in the motor are made of special, sintered oil-impregnated alloy mounted in oil-soaked felt to withstand long hours of continuous operation.
- * Continuous operation of the sewing machine will slightly increase the temperature of the motor and foot controller, but this will in no way affect the performance.
The motor and foot controller are equipped with ventilating holes, which must not be covered with cloth or paper during use.
- * When the motor is running, sparks may be seen through the ventilating hole in the motor bracket on the side opposite the handwheel. These sparks are produced by the carbon brushes and the commutator, and are of no significance.

Safety regulation for domestic sewing machines in conformity with "CEE Publication No.10, Part II, Section C, Article 7.1".

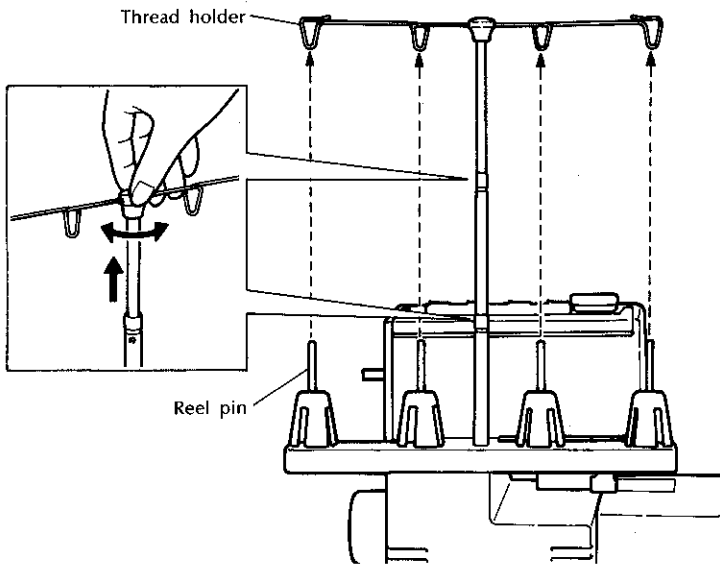
When the machine is not in use, or when threading, replacing needle or light bulb, the machine must be disconnected from the power supply by removing the plug from the wall socket. Use bulbs designed for max 8V/2.4W.

The machine has an interference suppressor for radio and television, complying with Directive No.82/499 E.E.C. and C.I.S.P.R.

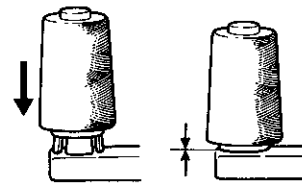
SETTING UP YOUR MACHINE



Connect the machine to the power supply.

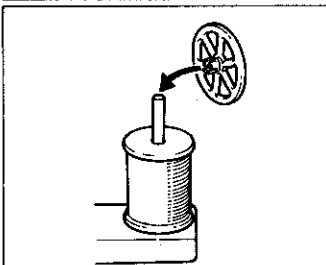


Raise the thread guide pole and set it by the positioning stopper at the joint of the upper and lower sections. Make sure that the thread holders are right above the reel support.



Place thread reels on reel support

NOTE



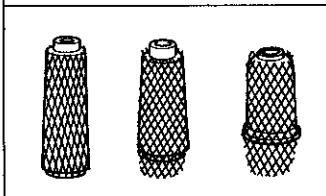
How to use thread spool cap and net

Thread spool cap

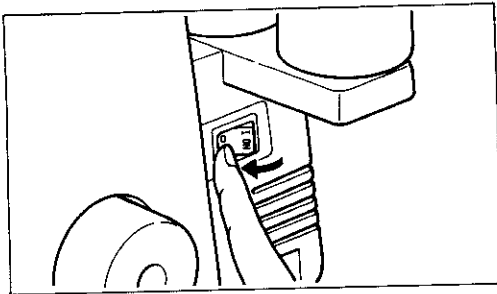
When you use a wooden thread reel, use the thread spool cap as illustrated.

Net

If you are sewing with loosely spun nylon thread, we recommend that you cover the spool with the net supplied to prevent the thread from slipping off the spool. Adapt the net to the shape of the spool, as per illustration.

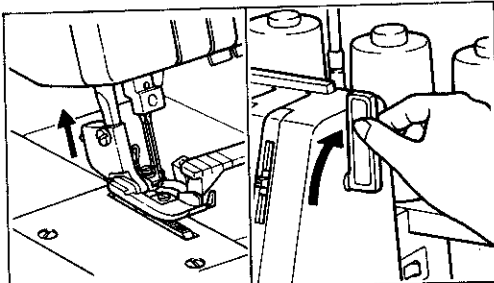


THREADING



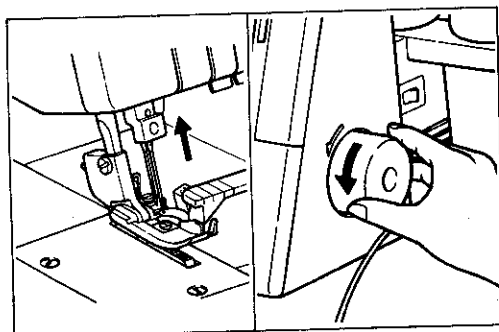
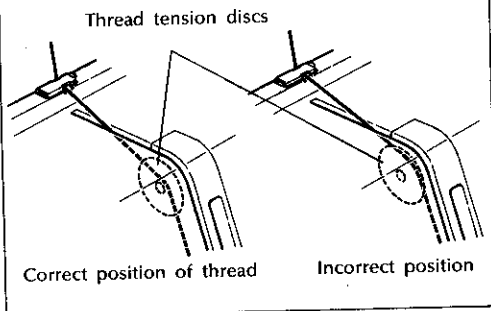
Before threading...

- 1) Turn off the main power switch for safety.



- 2) Raise the presser foot by means of the presser foot lever.

When the presser foot is raised, the two thread tension discs in the thread tension control panel are released so that thread runs clearly between them. Otherwise correct thread tension cannot be obtained.



- 3) Set the needle bar in its highest position by turning the handwheel toward you.

In this position, you can thread all parts, i.e. underlooper, overlooper, right and left needle, easily.

NOTE

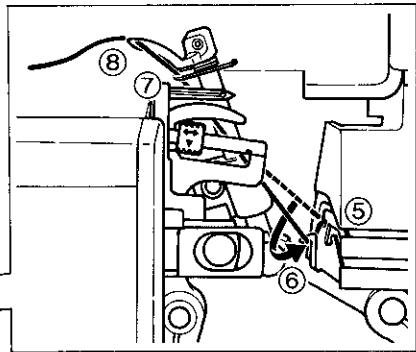
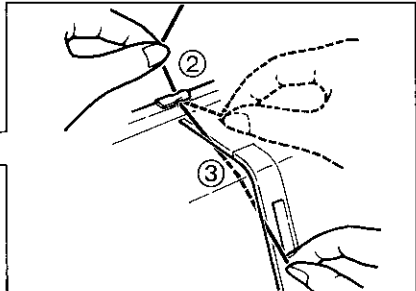
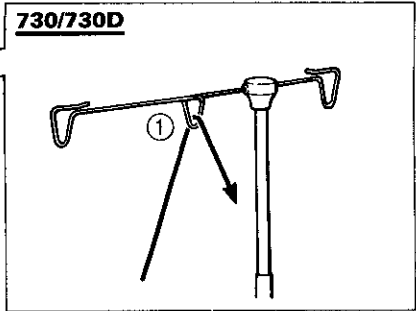
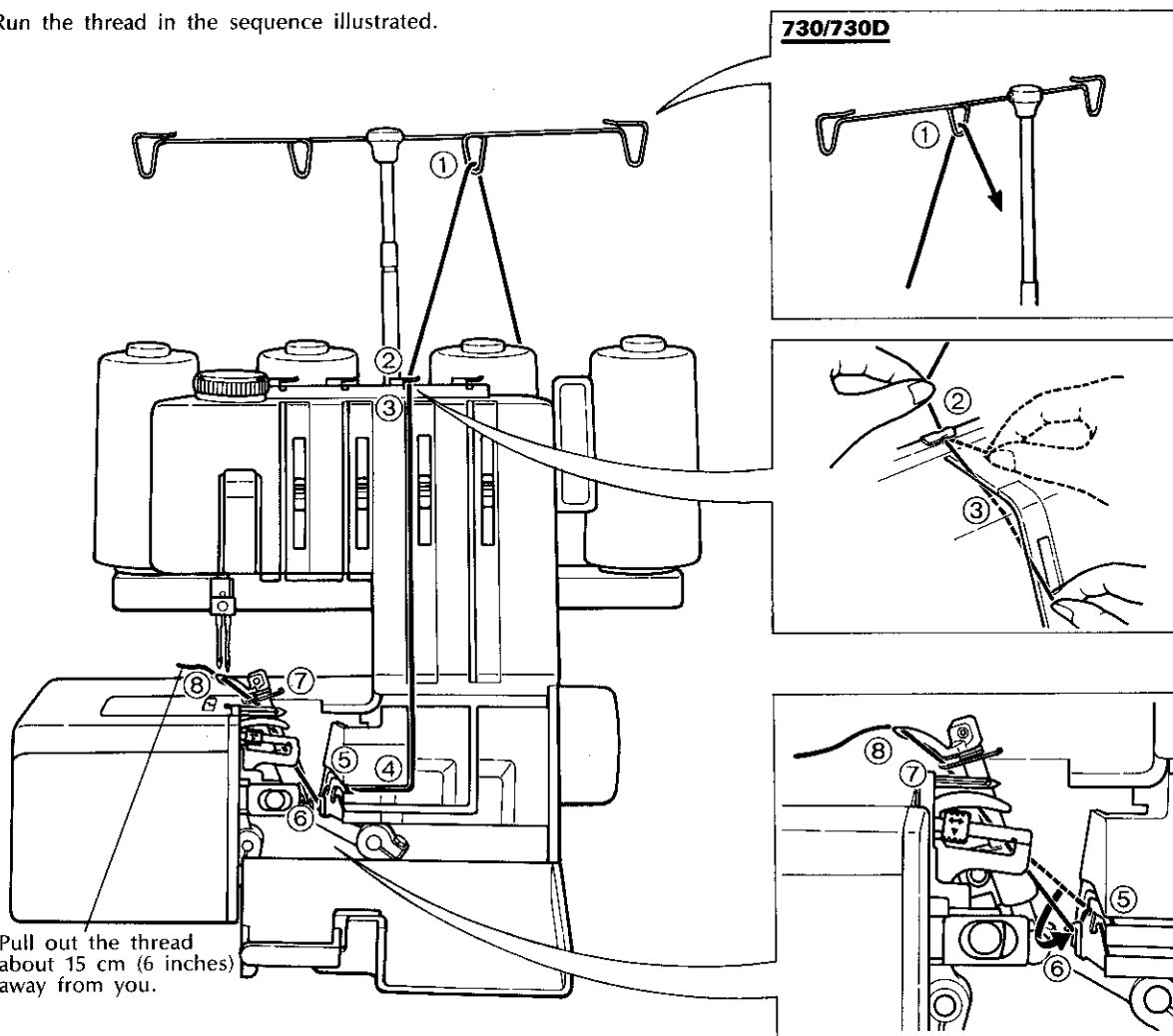
Threading order

Thread in the following order:

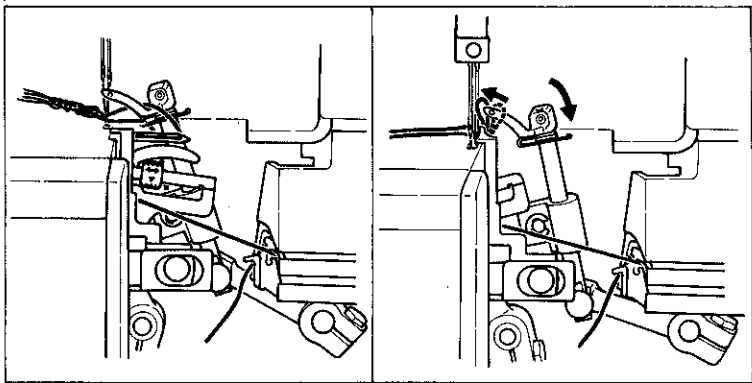
- 1) Overlooper thread (green)
↓
- 2) Underlooper thread (blue)
↓
- 3) Right needle thread (red)
(760/760D/760DE)
↓
- 4) Left needle thread (yellow)

Threading overlooper

Run the thread in the sequence illustrated.



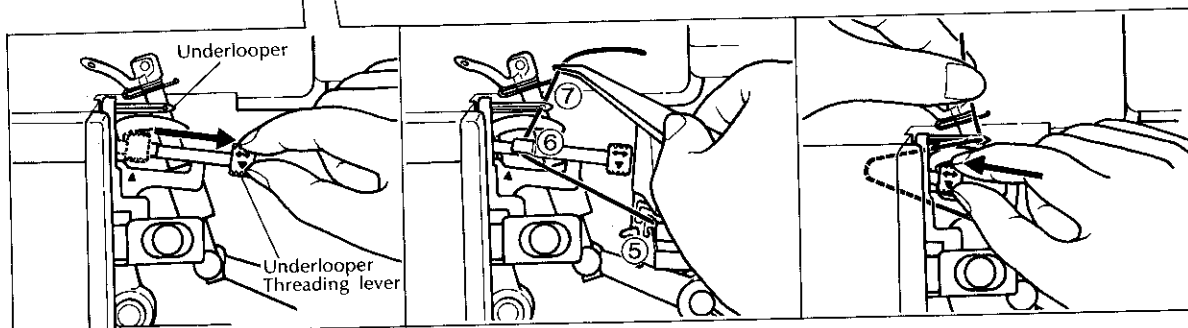
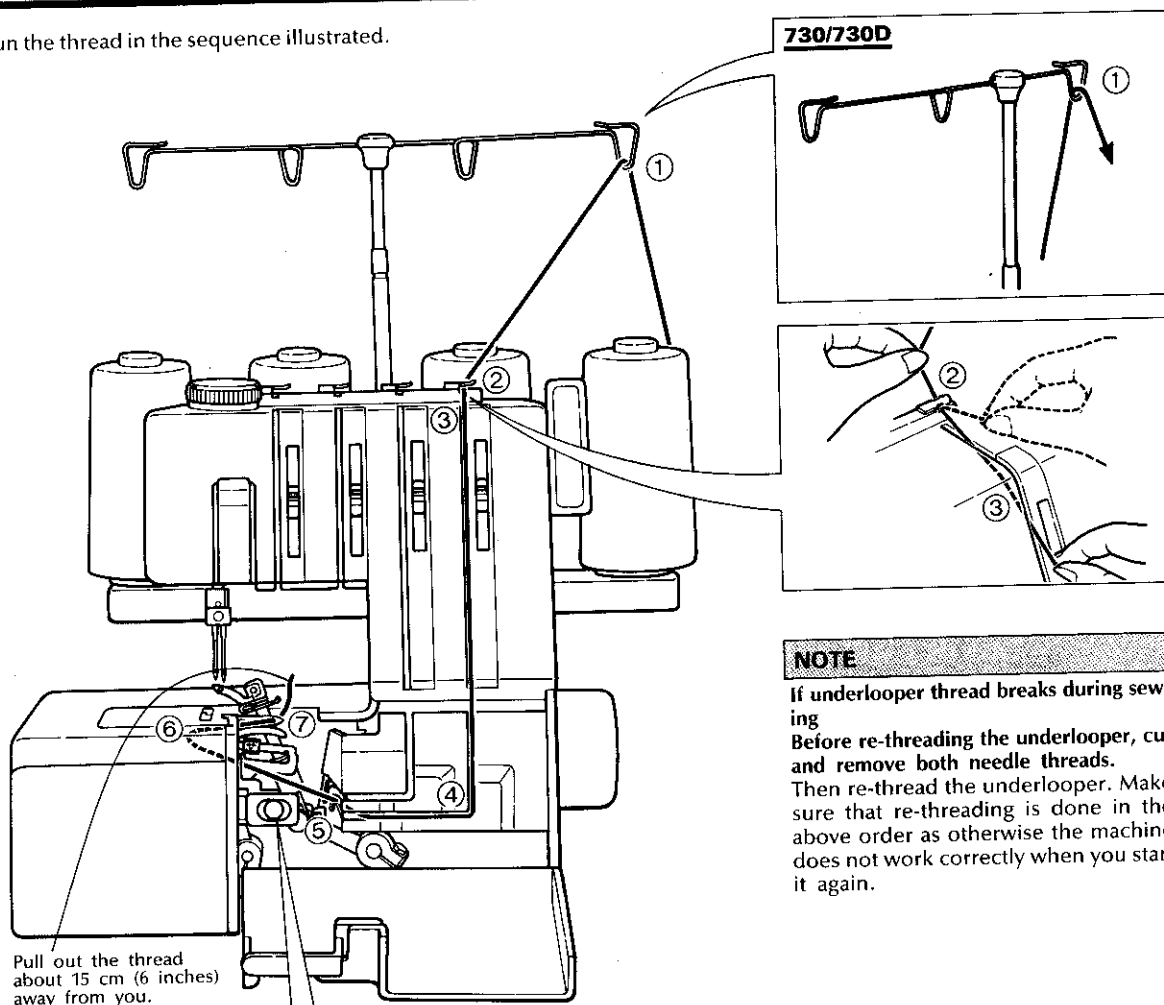
NOTE



If overlooper thread breaks during sewing
Underlooper thread sometimes hangs on overlooper. In such a case, lower the overlooper by turning the handwheel and take the underlooper thread off from overlooper. Then re-thread the overlooper.

Threading underlooper

Run the thread in the sequence illustrated.



Easy threading mechanism

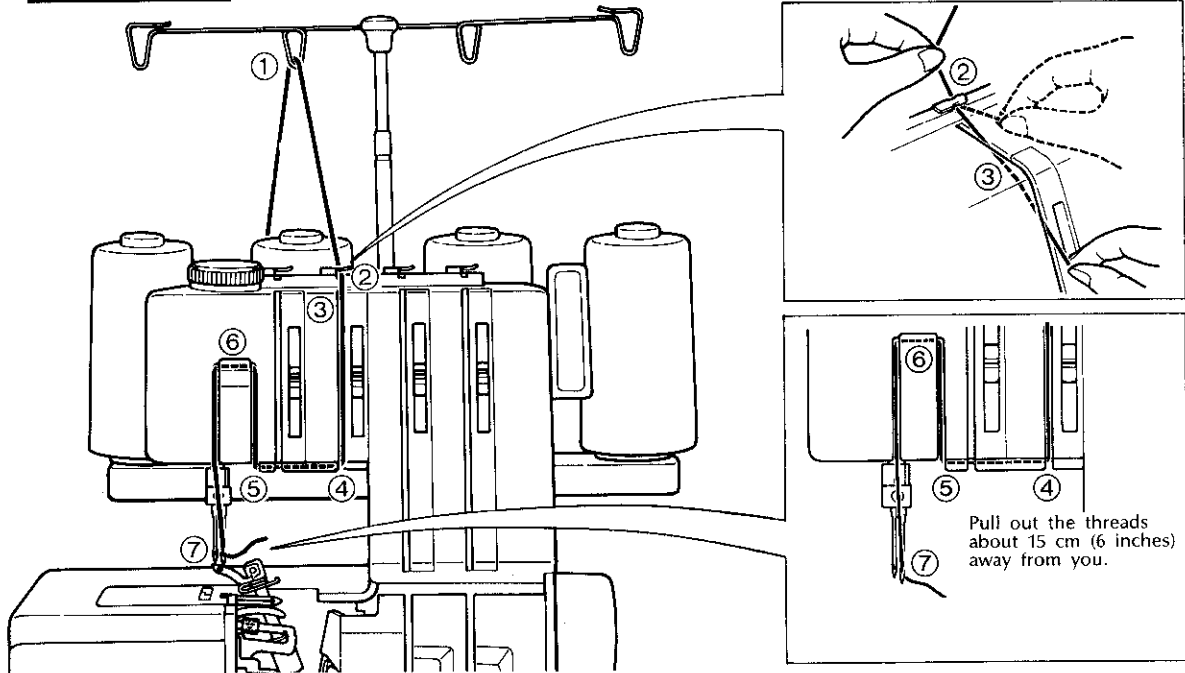
- a Pull out the underlooper threading lever.
- b Thread the underlooper and position the thread on hook of the underlooper threading lever.
- c Push the underlooper threading lever back to its basic position while holding the end of the thread.

Threading needles

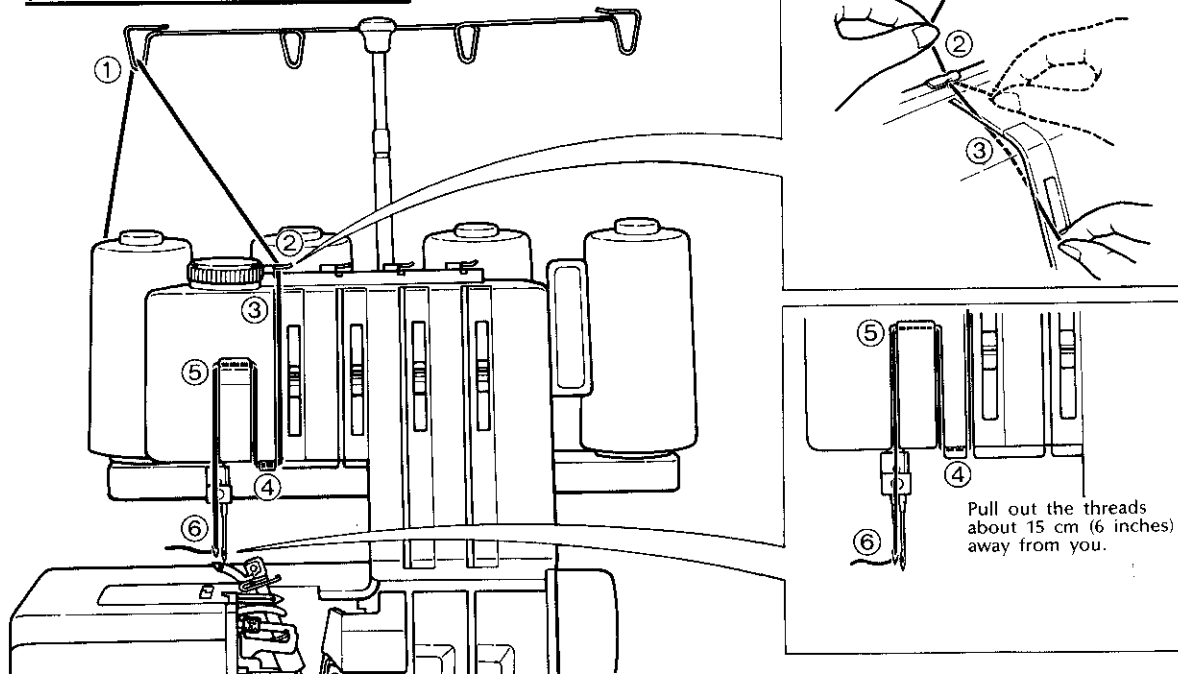
CAUTION!

*Thread the needles after threading of underlooper and overlooper.

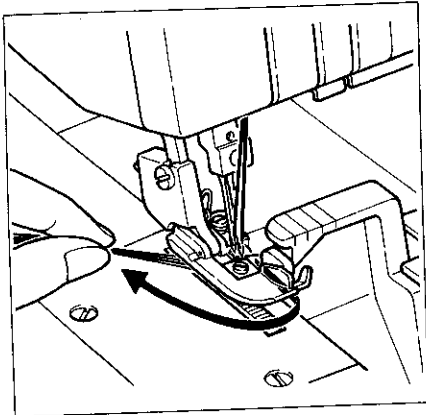
1) Right needle thread (760/760D/760DE)



2) Left needle thread (760/760D/760DE AND 730/730D)

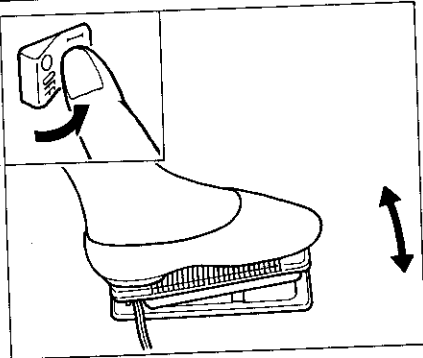


SEWING



To start sewing

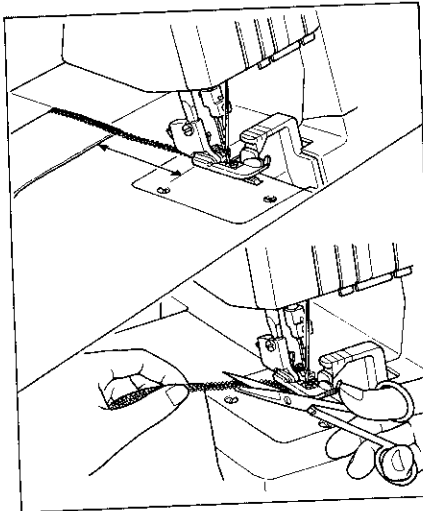
- * Thread the machine and pull the threads about 15 cm (6 inches) away from you behind the presser foot.
- * Place a spare piece of the fabric you intend to use under the presser foot and sew a few stitches by turning the handwheel towards you by hand.
- * Check the stitch formation produced to see if it is uniform. If not, re-check that the threading has been carried out correctly.



Operation

- * Turn on the main power switch and lamp switch.
- * When the pedal is lightly depressed the machine runs at low speed and as it is depressed further the machine will increase speed.
- * With the spare piece of fabric under the presser foot, lower the presser foot and test-sew at low speed.

On model 760DE the machine does not run if the presser foot is in its upper position even if you depress the foot controller. The monitor flashes with sound telling you that the presser foot should be lowered.

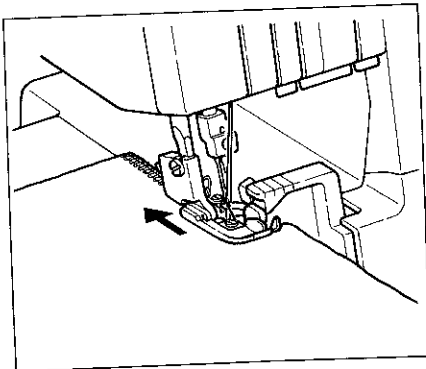


To remove the work

- * After you reach the end of the fabric continue sewing for about 5 cm to obtain chaining-off. Then trim off the stitches with a pair of scissors.

Chaining-off

- * After sewing, hold the foot control depressed slightly for a while (chaining-off). The threads will entwine themselves into a chain and be fed forward automatically. If feeding for chaining-off is not enough, pull the thread gently.



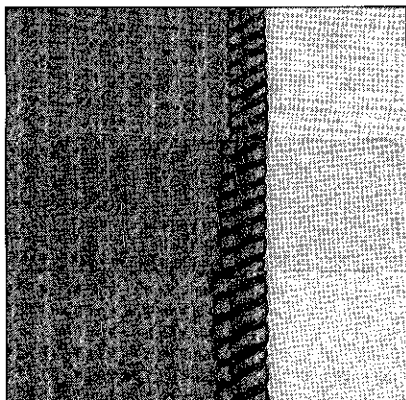
If threads break during sewing

- * Remove the fabric and re-thread correctly (refer to page 8-11, "Threading"). Put the fabric back under the presser foot and sew 3-5 cm over the previous stitches.

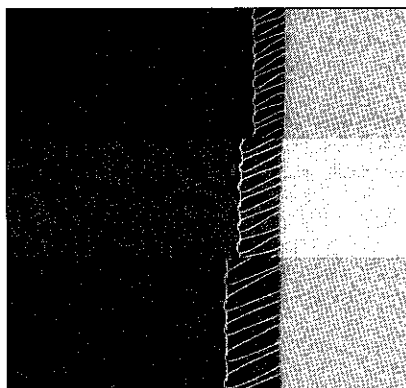
STITCH SELECTION

760/760D/760DE

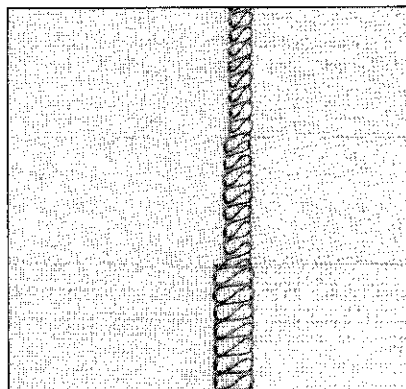
*These machines can form three kinds of stitches in simple steps as follows:



1. Four-thread overlock stitch (5, 6, 7 mm)
Use all four threads and two needles for producing four-thread overlock stitches, which will neatly fit all kinds of materials, especially knitted ones.
Use: Ideal for sewing knitted garments

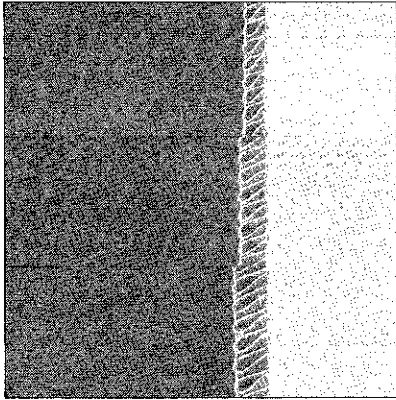


2. Three-thread overlock stitch (5, 6, 7 mm)
Use three threads and left needle, producing 5, 6, or 7 mm seams, which will fit all kinds of materials.
Remove right needle when sewing this overlock stitch.
Use: For overlock stitching and sewing suits, blouses, slacks, etc.



3. Three-thread overlock stitch (2.8, 3.8, 4.8 mm)
Use three threads and right needle, producing 2.8, 3.8 and 4.8 mm seams.
Remove left needle when sewing this overlock stitch.

730/730D

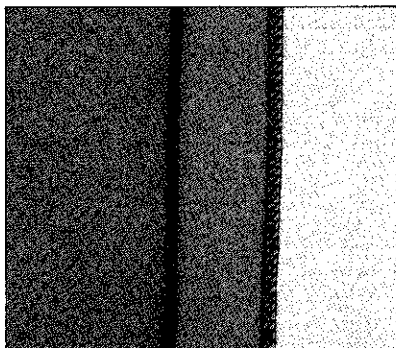


Three-thread overlock stitch (3–5 mm)
Use three threads and one needle, producing 3–5 mm seams, which will fit all kinds of materials.
Use: For overlock stitching and sewing suits, blouses, slacks, etc.

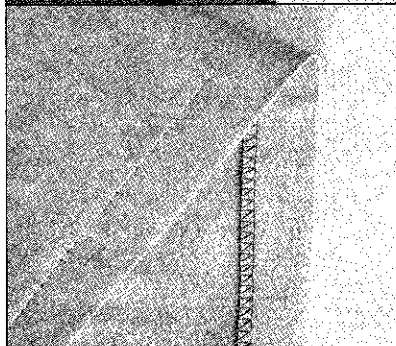
NOTE

Optional stitches

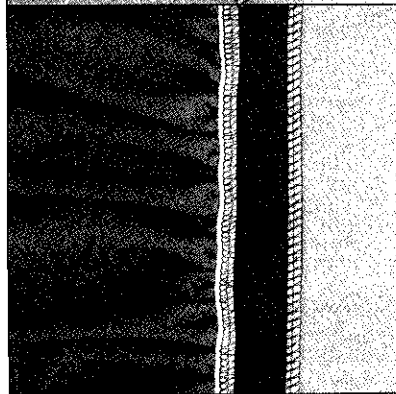
※ Optional special presser feet are necessary for those stitches.



Narrow/Rolled hemming stitches



Blind stitch



Overlock stitch with elastic tape

RATIO CHART OF SEWING MATERIAL THREAD AND NEEDLE

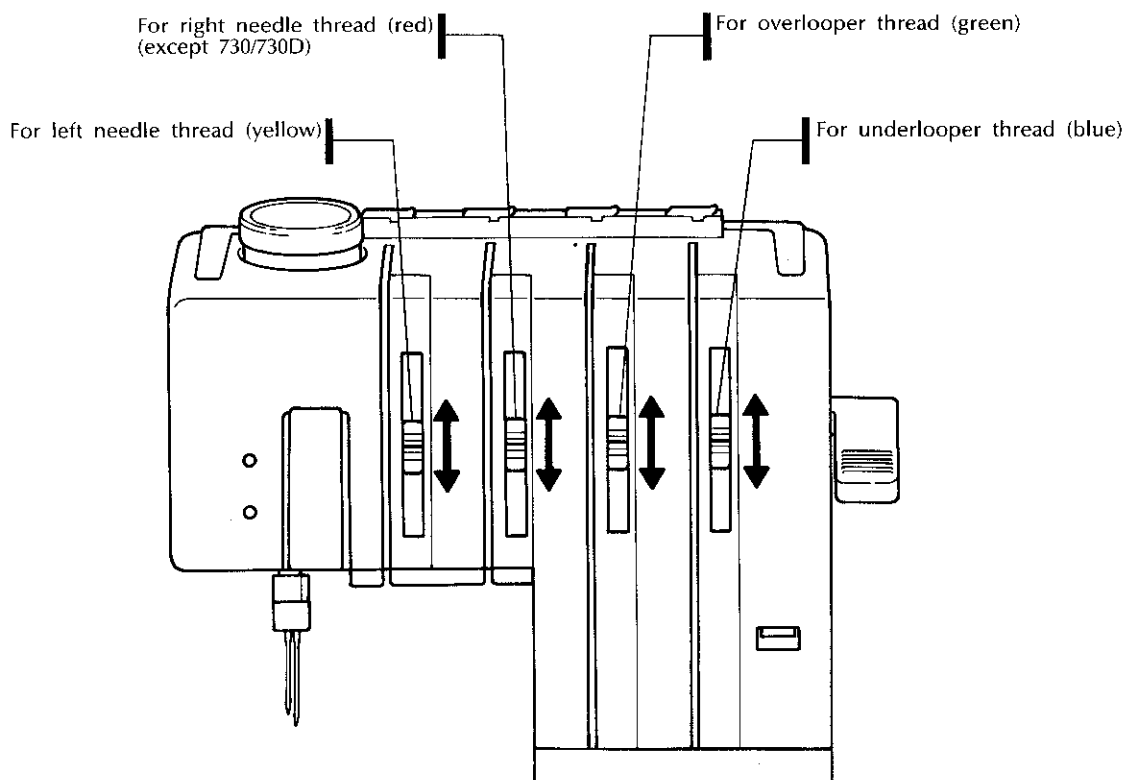
Materials		Stitch	Thread	Stitch length (mm)	Needle
Light material	Georgette Crepe de chine Lawn Organdie	Overlock stitch	Spun thread #80 Cotton thread #80-100 Silk thread #80-100	2.0-3.0	ORGAN HA x 130 #11 SCHMETZ 130/705 H #75
		(Optional) Narrow/ Rolled hem	Needle thread Tetron thread #80 Nylon thread #80 Underlooper thread Tetron thread #80 Nylon thread #80 Wooly nylon thread	Less than 2.0	
Medium material	Poplin Gingham (Broad) Sucker Gabardine Serge Knitted Tricot	Overlock stitch	Spun thread #60-80 Cotton thread #60-80 Silk thread #50-80 Tetron thread #50-80 Nylon thread #50-80	2.5-3.5	ORGAN HA x 130 #11 or #14 SCHMETZ 130/705 H #75 or #90 BALL POINT NEEDLE #11 in accessories
Heavy material	Cashmere Tweed Denim Jersey	Overlock stitch	Cotton thread #40-60 Silk thread #40-60 Tetron thread #30-60 Nylon thread #30-60	3.0-4.0	ORGAN HA x 130 #14 SCHMETZ 130/705 H #90

CAUTION!

When you carry the machine with threads threaded, please push the spool down at the lowest position and wind threads on each spool.

THREAD TENSION

Thread tension control levers



Tension control

Sewing is possible at position "■" under almost any circumstances. If you find it impossible, adjust according to the drawing.

* The thread tension of this machine can be adjusted by the thread tension adjustment levers for the two (one) needle thread(s), the overlooper thread and the underlooper thread. The correct thread tension varies with the kind of fabric, the thickness of the thread etc. Adjust the thread tension as required in each particular case. Move slide lever upwards to increase tension and downwards to decrease it.

Whenever you change fabric, thread or stitch width, be sure to adjust the thread tension. See Page 17-20 "Chart of Thread Tension Adjustment".

NOTE

Order of thread tension adjustment.

When you adjust the thread tension, do it in the following order;

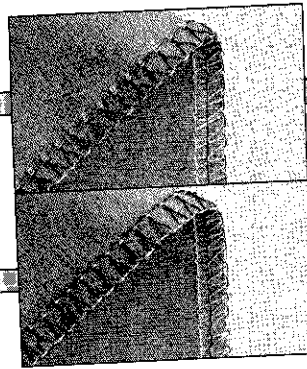
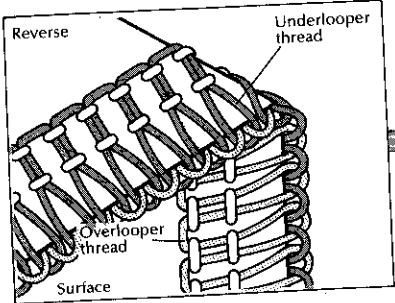
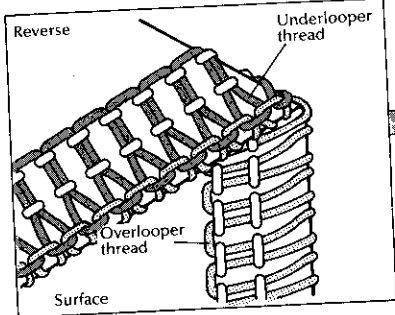
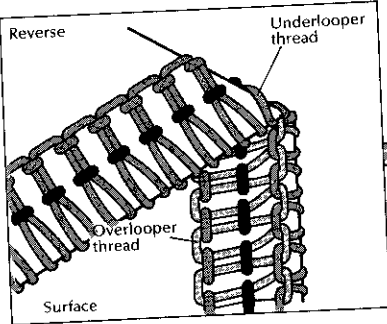
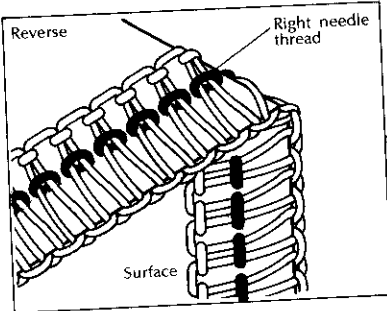
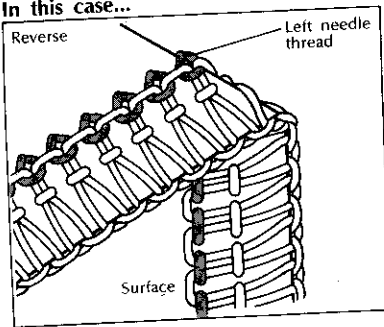
- 1) Left needle thread
- 2) Right needle thread (except 730/730D)
- 3) Overlooper thread
- 4) Underlooper thread

This is the easiest way to obtain correct thread tension.

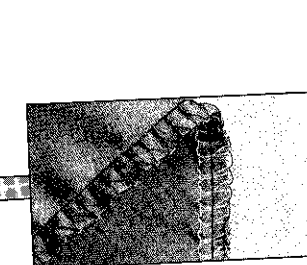
CHART OF THREAD TENSION ADJUSTMENT

760/760D/760DE

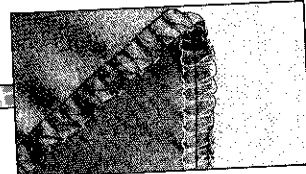
In this case...



Left needle thread is slack.

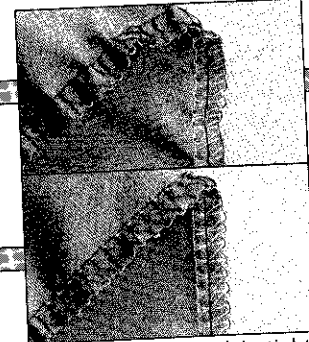


Right needle thread is slack.

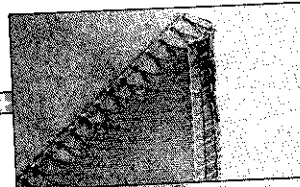


Fabric puckers

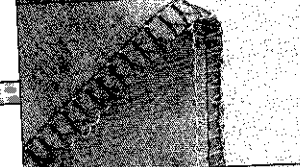
Left needle thread is tight.



Right needle thread is tight.



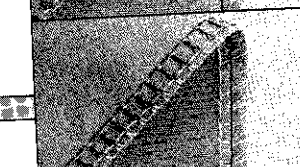
Overlooper thread is tight.



Underlooper thread is slack.



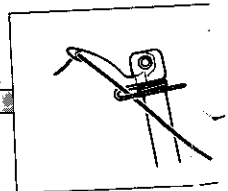
Overlooper thread is slack.



Underlooper thread is tight.



Overlooper thread is slack.
Underlooper thread is slack.



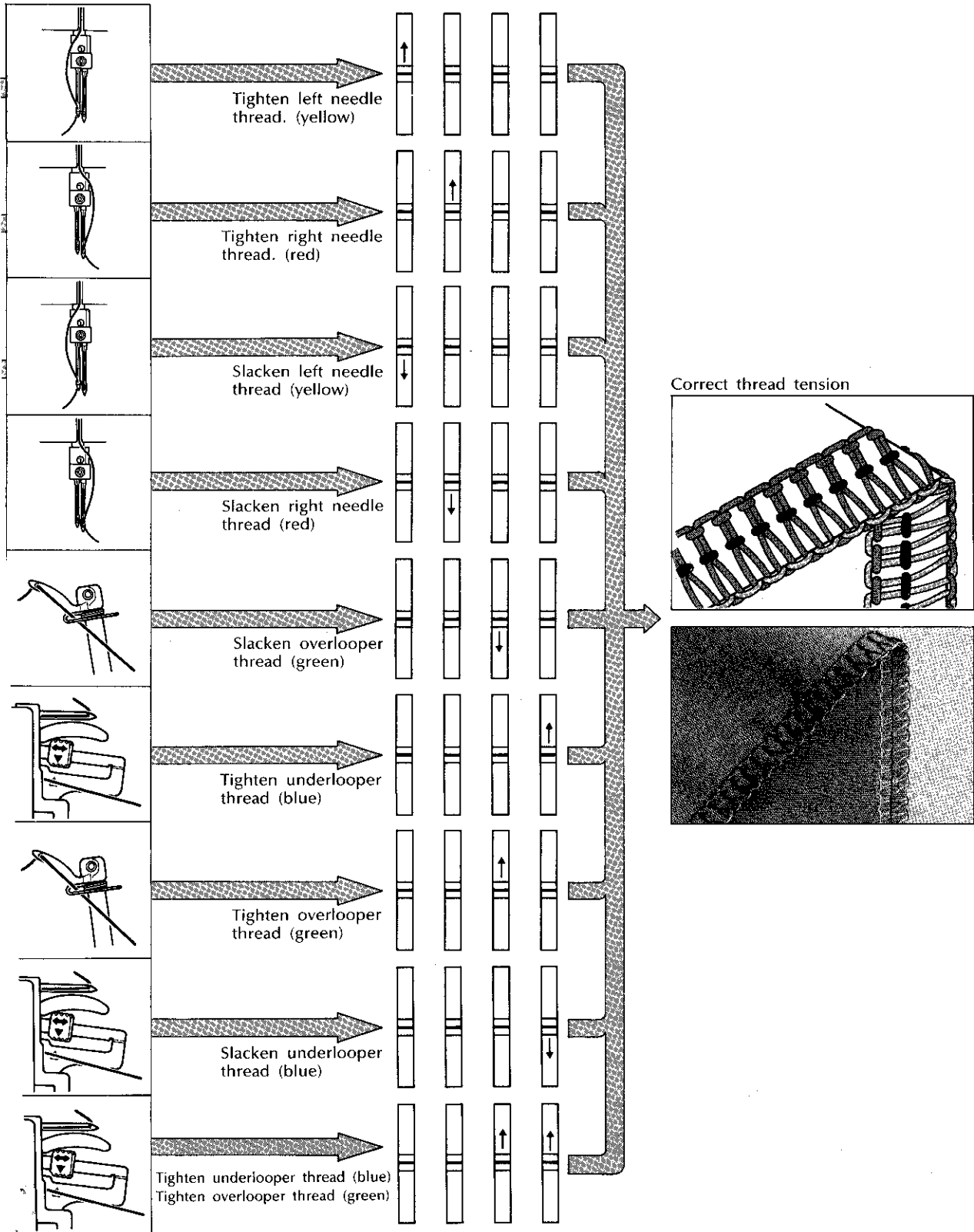
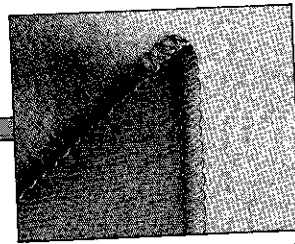
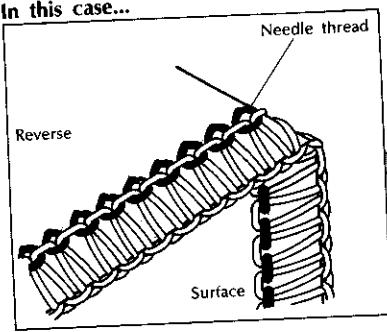


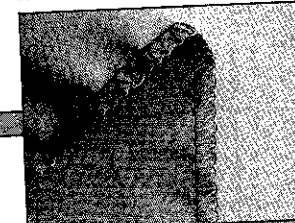
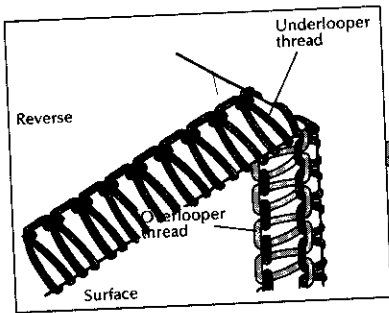
CHART OF THREAD TENSION ADJUSTMENT

730/730D

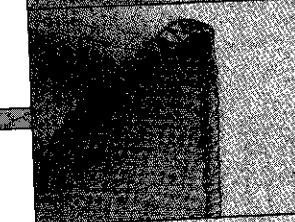
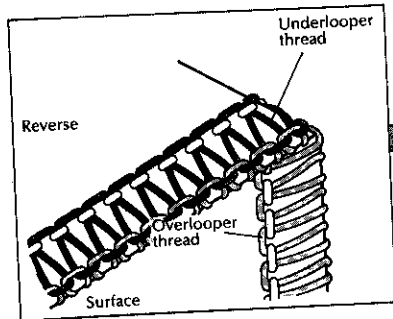
In this case...



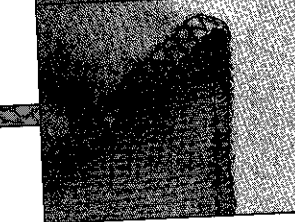
Needle thread is slack.



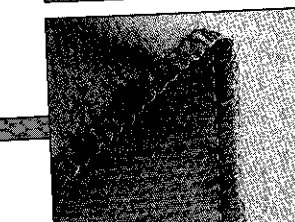
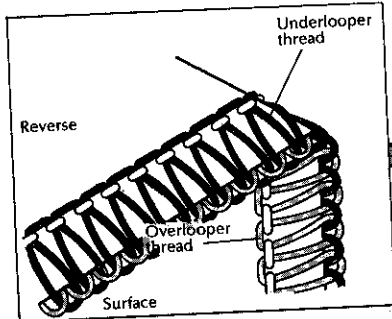
Fabric puckers



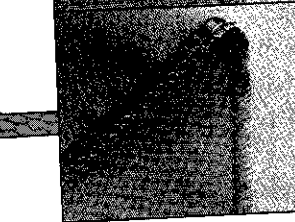
Overlooper thread is tight.



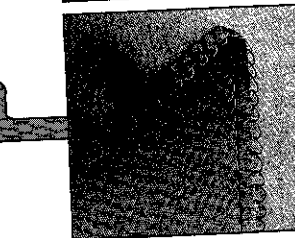
Underlooper thread is slack.



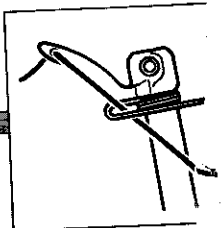
Overlooper thread is slack.

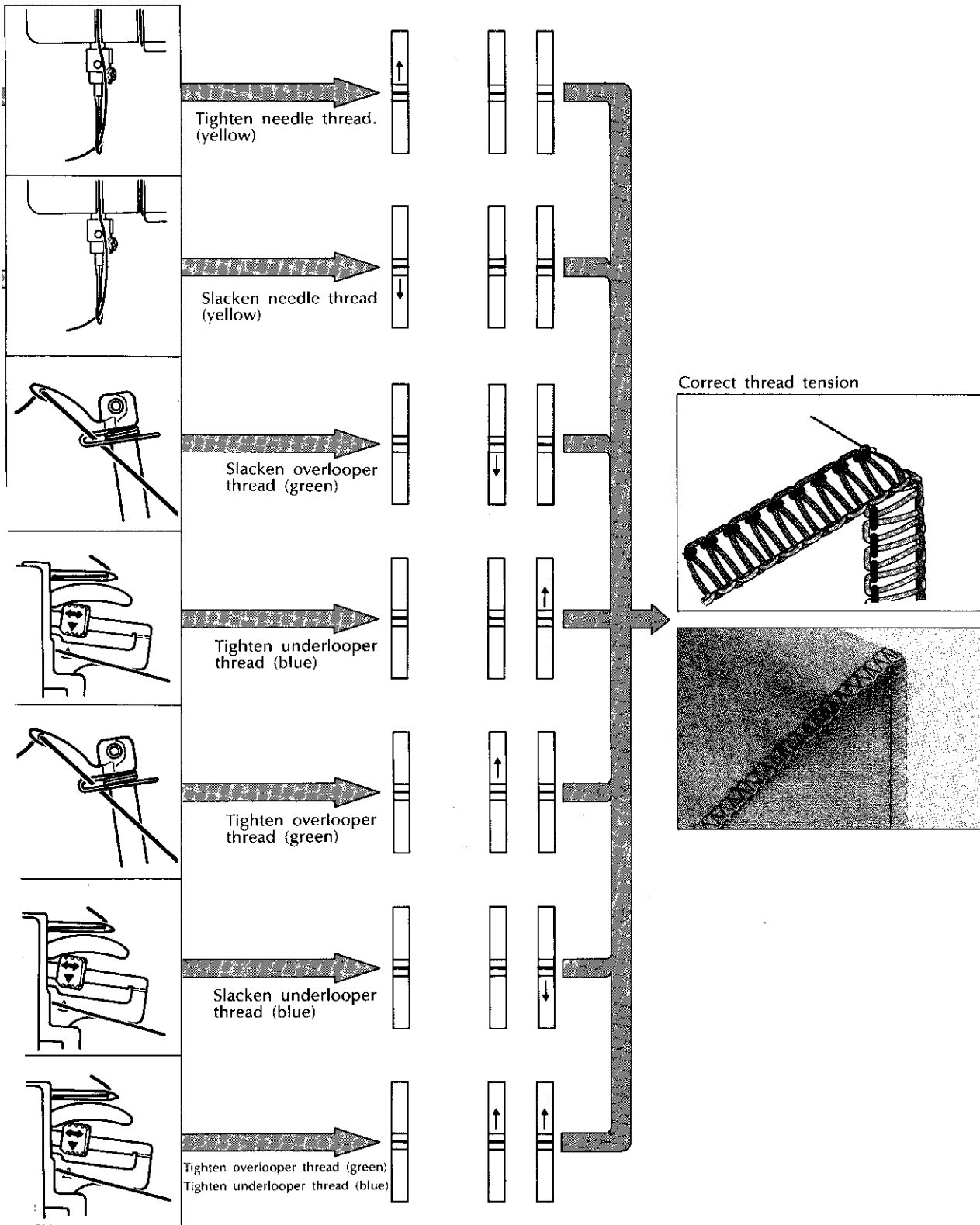


Underlooper thread is tight.

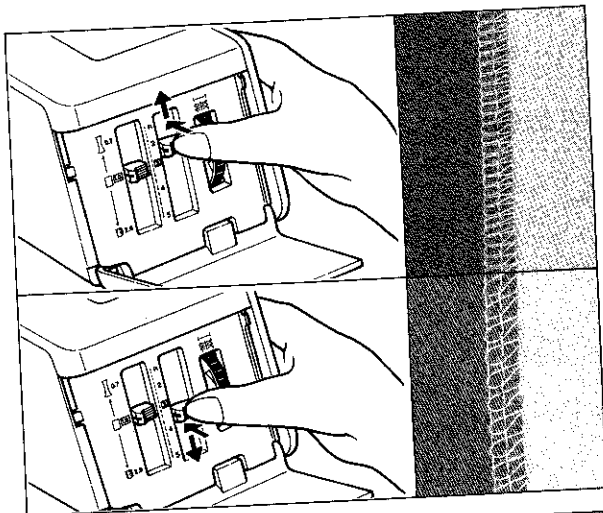


Overlooper thread is slack.
Underlooper thread is slack.





STITCH LENGTH AND STITCH WIDTH



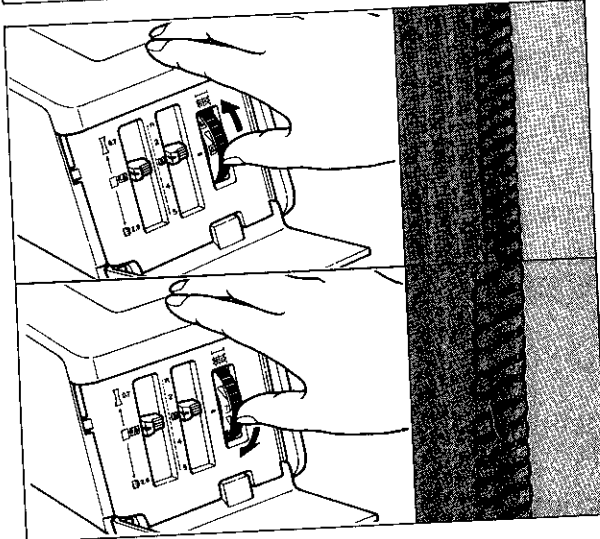
Stitch Length

Open the control cover, then set the stitch length control lever in the proper position.

Minimum 1 mm (position R)

Maximum 5 mm (position 5)

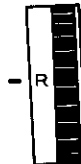
* 1-2 mm for narrow/rolled hem (optional)



Stitch Width

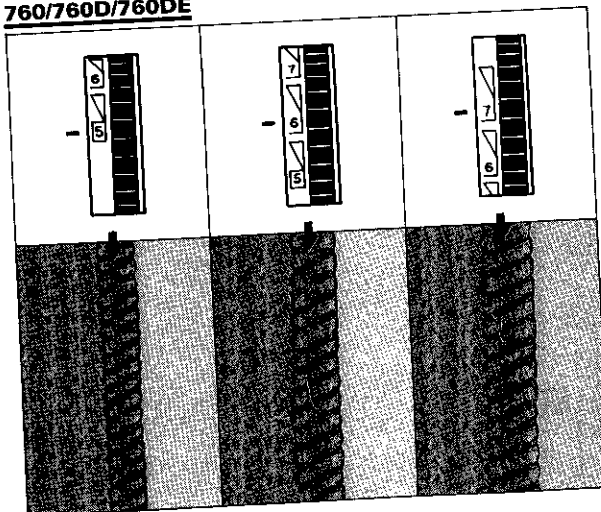
The stitch width can be adjusted through turning the stitch width control dial inside the control cover.

REMARK



Position "R" is used for narrow/rolled hemming stitch. In this case, optional special presser foot/attachment is necessary.

760/760D/760DE



760/760D/760DE

Dial No.	R	5	6	7
4 thread-stitch	-	5 mm	6 mm	7 mm
3 thread-stitch by left needle	Narrow/Rolled hemming	5 mm	6 mm	7 mm
3 thread-stitch by right needle	-	2.8 mm	3.8 mm	4.8 mm

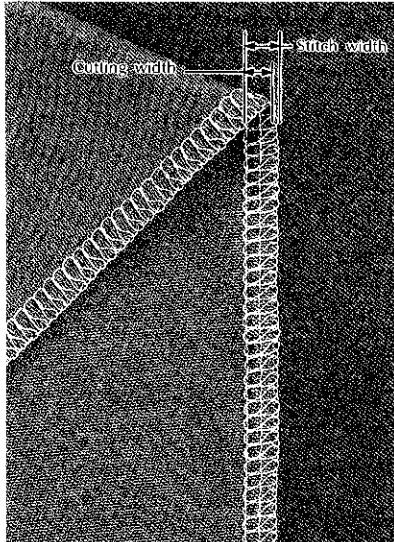
Narrow/Rolled hemming with optional foot

730/730D

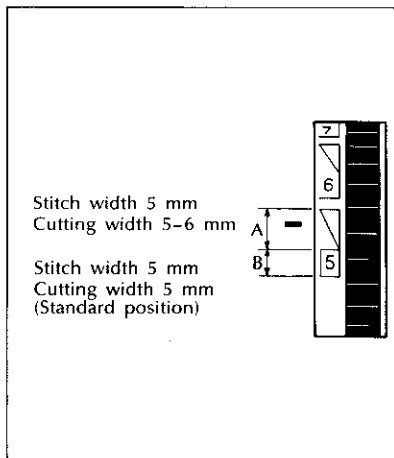
Min. 3 mm - Max 5 mm

Narrow/Rolled hemming with optional foot and needle plate

STITCH WIDTH AND CUTTING WIDTH FINE ADJUSTMENT MECHANISM

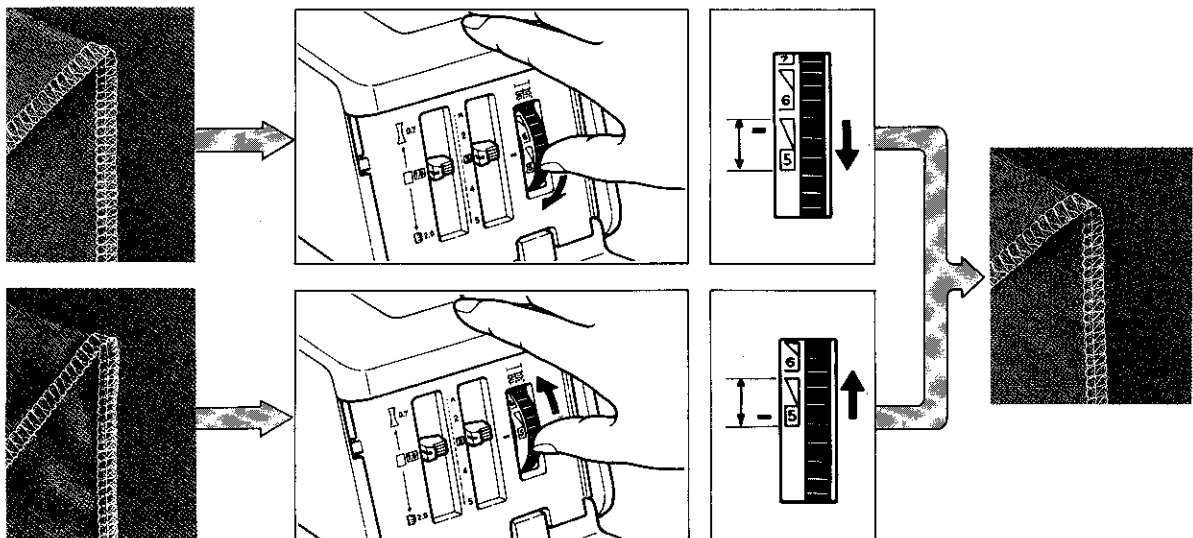


When you sew elastic materials like e.g. knitted garments, you sometimes will find that the garments are not properly overcast because of contraction of the material after cutting. When this occurs you can eliminate the problem by fine adjustment of the stitch width and increasing the cutting width. This unique Homelock feature will ensure a satisfactory sewing result also on knitted materials.



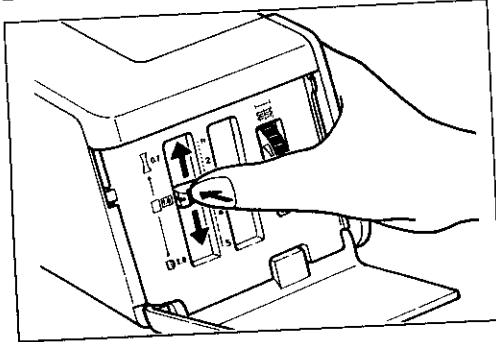
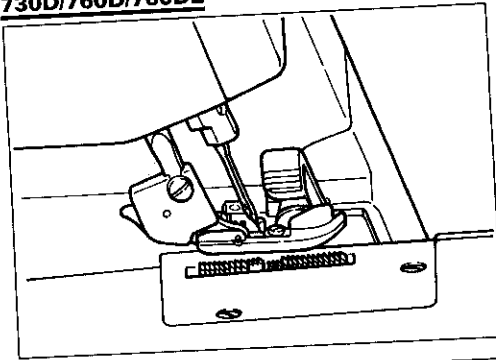
How to adjust?

When you turn the stitch width control dial, the stitch width can be set at 5, 6 or 7 mm while the cutting width is increased gradually from 5 to 7 mm. If you want to sew 5 mm stitch width but 5,5 mm cutting width when sewing elastic materials, you only set the stitch width control dial within "A" area as illustrated. This will result in correct overcasting in elastic materials.



DIFFERENTIAL FEED MECHANISM

730D/760D/760DE



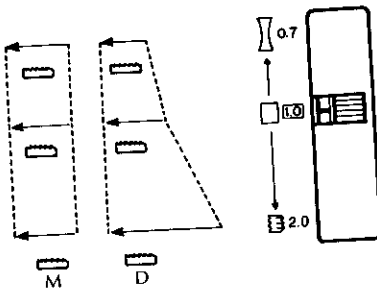
What is "differential feed ratio"?

The machine is equipped with two feeders, of which the front one (the differential feeder) can be adjusted to feed more or less in relation to the rear one (the main feeder). It is adjustable between 0.7–2.0. The exact adjustment is dependent on the thickness and elasticity of the material. The longer the stitch length also affects the adjustment. The longer the stitch the more material is being fed forwards.

How to adjust the differential feed ratio

- 1) Open the control cover.
- 2) Adjust the feed ratio as required by means of the differential ratio control lever.
- 3) Close the control cover.

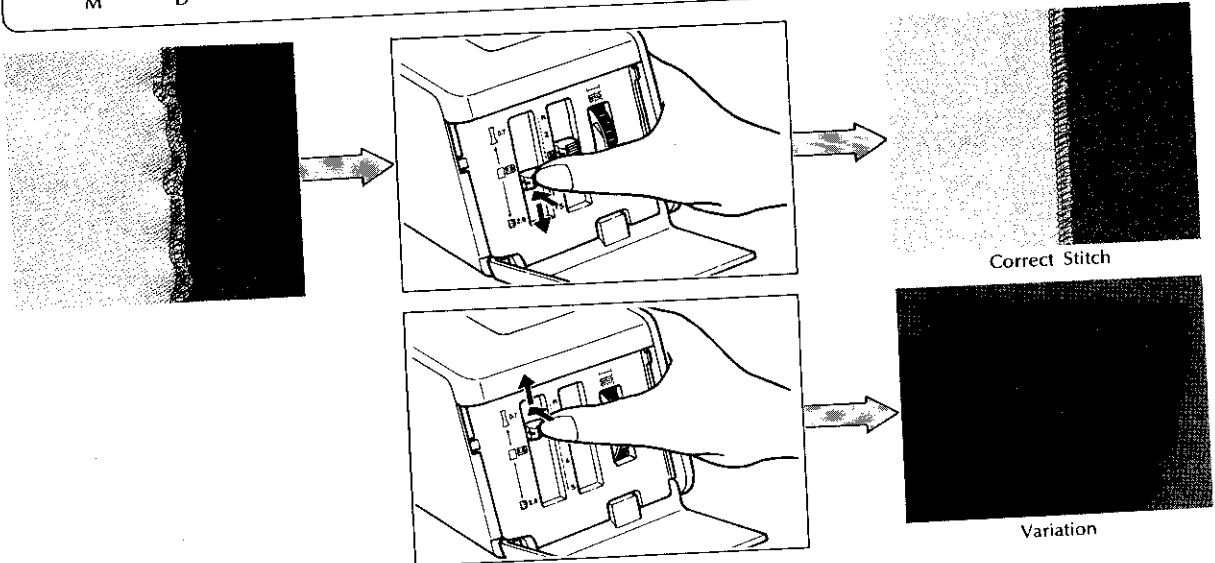
Adjustment example



REMARK
M Main feeder
D Differential feeder
← Direction of feeding

Stretch material
Adjustment to 0.7 result in a stretched edge
Adjustment to 2.0 prevents the edge from stretching

Non-stretch material
Adjustment to 0.7 results in a straight edge
Adjustment to 2.0 results in puckering

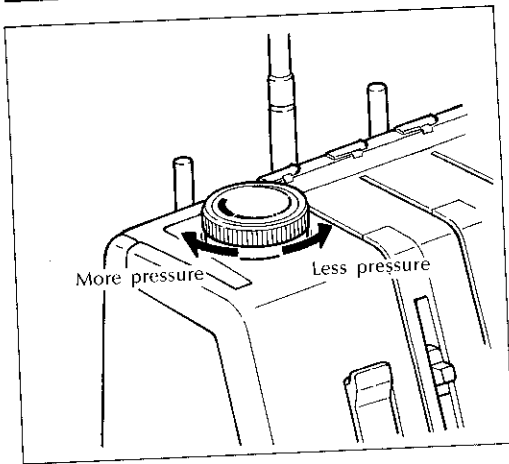


Correct Stitch

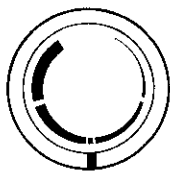
Variation



PRESSER FOOT PRESSURE



* The pressure of the presser foot can be adjusted by turning the pressure adjustment dial. Since the machine has already been adjusted to a pressure suitable for light and medium fabrics, no further adjustment is necessary except when sewing very heavy or very light and elastic material.



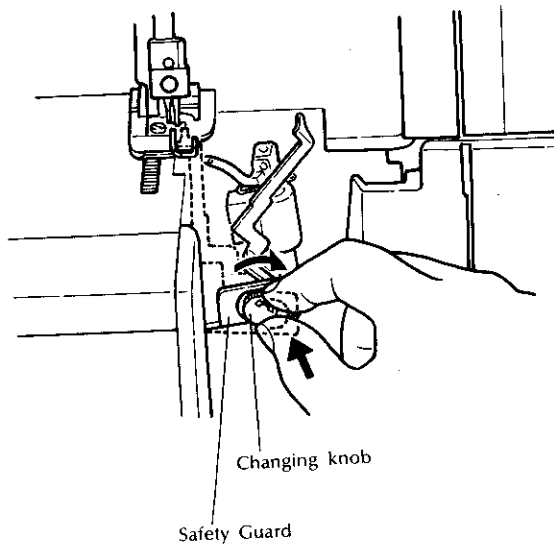
Standard position

Light material,
Elastic material → Decrease
Heavy material → Increase

STITCH TONGUE

NOTE

760/760D/760DE



DON'T TOUCH THE STITCH TONGUE CHANGING KNOB. (760, 760D, 760DE)

You can retract the stitch tongue using the changing knob. However this mechanism is used only for the narrow/rolled hemming stitch (optional). Therefore don't touch the changing knob during normal operation.

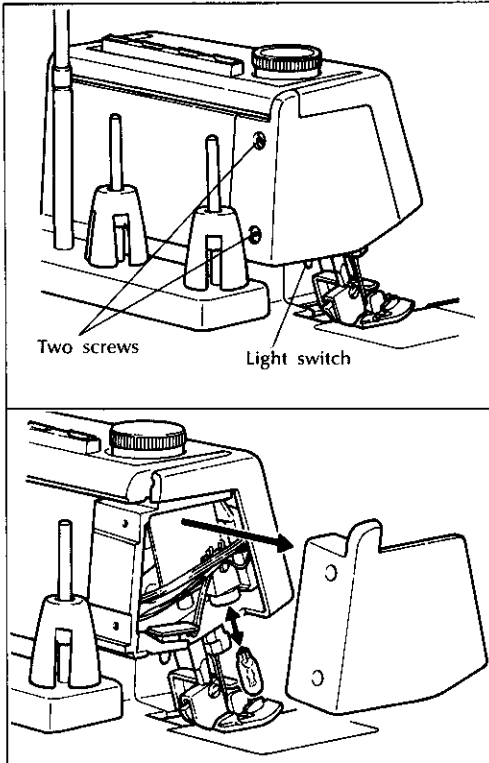
* In case the overlooper is not in its lowest position, you cannot push the safety guard.

PERFORMANCE PROBLEMS FAULT-FINDING

Problem	Probable cause	Possible correction
1. Does not feed.	Presser foot pressure too weak.	Turn pressure adjustment dial clockwise to increase presser foot pressure. (See page 25)
2. Needle breaks.	(1) Needle bent, or needle tip blunt.	Insert new needle. (See page 5)
	(2) Needles incorrectly set.	Re-set needle. (See page 5)
	(3) Fabric has been pulled.	Do not press or pull fabric—guide it gently.
3. Thread breaks.	(1) Improper threading	Re-thread machine (See page 8~11)
	(2) Thread tangled.	Check spool pin, thread holders, etc. and remove tangled thread.
	(3) Thread tension too tight.	See page 16~20 “Thread tension”
	(4) Needle incorrectly set.	Re-set needle. (See page 5)
	(5) Wrong needle used.	Use sewing machine needles— ORGAN HA x 130, SCHMETZ 130/705H
4. Skipped stitches	(1) Needle bent, or needle tip blunt.	Insert new needle. (See page 5)
	(2) Needle incorrectly set.	Re-set needle. (See page 5)
	(3) Wrong needle used.	Use sewing machine needles— ORGAN HA x 130, SCHMETZ 130/705H
	(4) Improper threading	Re-thread machine. (See page 8~11)
	(5) Presser foot pressure too weak.	Turn pressure adjustment dial clockwise to increase presser foot pressure. (See page 25)
5. Stitches not uniform.	Thread tension not adjusted properly.	See page 16~20 “Thread tension”.
6. Fabric puckers.	(1) Thread tension too tight.	Decrease thread tension when sewing light-weight or fine fabric. (See page 16~20)
	(2) Improper threading or thread tangled.	Re-thread machine. (See page 8~11)
Machine does not work. (Monitor flashes, 760DE)	(1) Presser foot is in upper position (760DE).	Lower the presser foot (760DE). (See page 3)
	(2) Machine is locked by thread tangle.	Remove tangled thread. Check and re-thread machine. (See page 8~11)



CHANGING THE LIGHT BULB



CHANGING THE LIGHT BULB

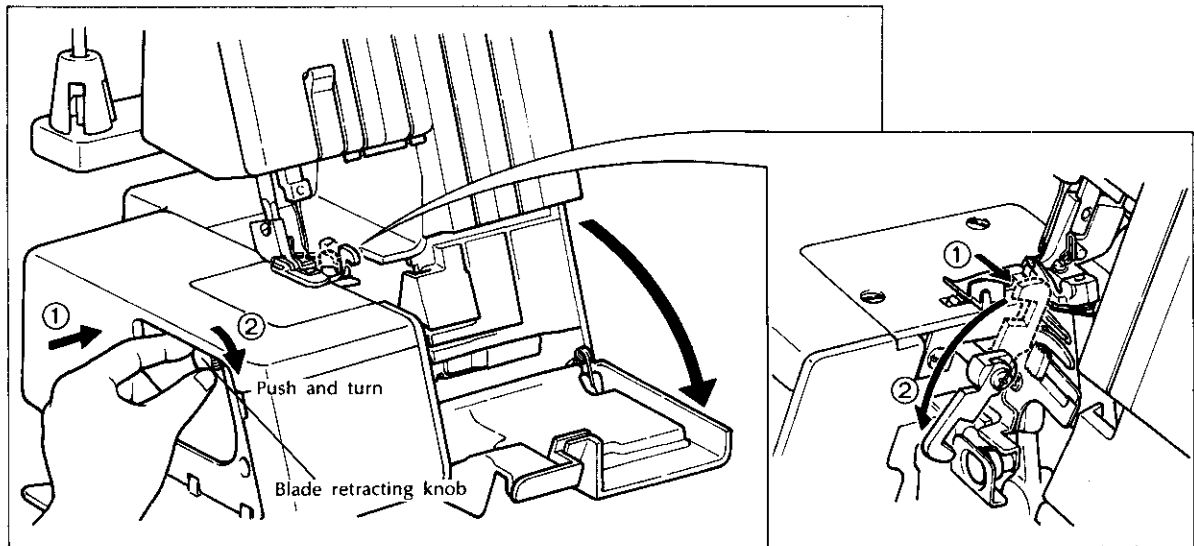
Remove the cover as illustrated. Pull out the light bulb, insert the new bulb and replace the cover.

Use correct light bulb.

Maximum Rated input of bulb: 8V, 2.4W

Recording #: X50228001

RETRACTING THE BLADE



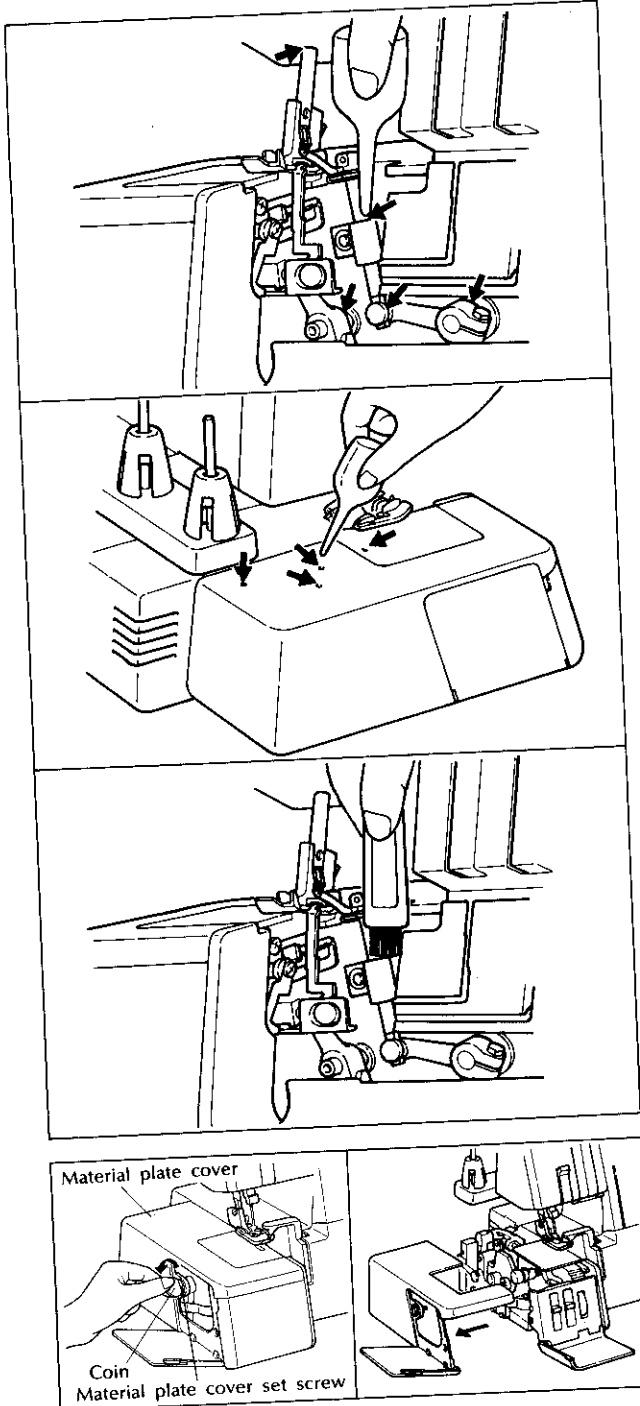
In case you wish to sew without cutting, set the needle above the needle plate and retract the blade by means of retracting knob.

CAUTION!

Make sure that the seam allowance on material is not wider than the stitch width you have chosen on the machine. The reason is that if the seam allowance is wider the overlooper and needle can be damaged.

* Close door before operating machine.

MAINTENANCE



Oiling

For smooth and silent operation the moving parts of the machine should be oiled periodically. (See illustration.)

REMARKS:

1. OIL ONCE OR TWICE A MONTH IF THE MACHINE IS USED NORMALLY. IF THE MACHINE IS USED MORE OFTEN, OIL ONCE A WEEK. ALWAYS USE HIGH QUALITY SEWING MACHINE OIL.
2. After oiling, run the machine without thread. Wipe off excess oil with a scrap piece of cloth to avoid oil stains.

Cleaning

Open front cover (see page 1. ⑰) and clean up mechanical parts inside the cover by brush periodically.

REMARKS

Cloth plate cover can be taken off by loosening one screw per illustration, but it is necessary for service at dealers.

MACHINE SPECIFICATION

Model No.	760DE	760D	760	730D	730
No. of needles	2	2	2	1	1
No. of threads	3/4	3/4	3/4	3	3
Use	Elastic materials Knitted materials	Elastic materials Knitted materials	Light to heavy- weight materials	Elastic materials Knitted materials	Light to heavy- weight materials
Length	1-5	1-5	1-5	1-5	1-5
Max stitch width	7	7	7	5	5
Stitch width and cutting width fine adjustment	Yes	Yes	Yes	No	No
Presser foot holder	Snap-on type	Snap-on type	Snap-on type	Snap-on type	Snap-on type
Differential feed ratio	1 : 0.7-2.0	1 : 0.7-2.0	-	1 : 0.7-2.0	-
Presser foot lift	5/6 mm	5/6 mm	5/6 mm	5/6 mm	5/6 mm
Needle system	ORGAN HA x 130 SCHMETZ 130/705H	ORGAN HA x 130 SCHMETZ 130/705H	ORGAN HA x 130 SCHMETZ 130/705H	ORGAN HA x 130 SCHMETZ 130/705H	ORGAN HA x 130 SCHMETZ 130/705H
Sewing speed	1,500 stitches/ minute	1,500 stitches/ minute	1,500 stitches/ minute	1,500 stitches/ minute	1,500 stitches/ minute
Main power switch	Yes	Yes	Yes	Yes	Yes
Electronic functions	Yes	-	-	-	-
Machine net weight	8.5 kg	8.5 kg	7.5 kg	8.5 kg	7.5 kg

M760DE/M760D/M760
M730D/M730
193760-015 ①
Printed in Japan