

# INSTRUCTION BOOK



## COVER PRO 900CP

# **JANOME**

# IMPORTANT SAFETY INSTRUCTIONS

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

Read all instructions before using this appliance.

## **DANGER—** To reduce the risk of electric shock:

1. An appliance should never be left unattended when plugged in. Always unplug this sewing machine from the electric outlet immediately after using and before cleaning.
2. Always unplug before replacing a sewing machine bulb. Replace bulb with same type rated 15 Watts.

## **WARNING—** To reduce the risk of burns, fire, electric shock, or injury to persons:

1. Do not allow to be used as a toy. Close attention is necessary when this sewing machine is used by or near children.
2. Use this appliance only for its intended use as described in this owner's manual.  
Use only attachments recommended by the manufacturer as contained in this owner's manual.
3. Never operate this sewing machine if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water.  
Return this sewing machine to the nearest authorized dealer or service center for examination, repair, electrical or mechanical adjustment.
4. Never operate the appliance with any air opening blocked. Keep ventilation openings of this sewing machine and foot controller free from accumulation of lint, dust and loose cloth.
5. Never drop or insert any object into any opening.
6. Do not use outdoors.
7. Do not operate where aerosol (spray) products are being used or where oxygen is being administered.
8. To disconnect, turn all controls to the off ("O") position, then remove plug from outlet.
9. Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
10. Keep fingers away from all moving parts. Special care is required around the sewing machine needle.
11. Always use the proper needle plate. The wrong plate can cause the needle to break.
12. Do not use bent needles.
13. Do not pull or push fabric while stitching. It may deflect the needle causing it to break.
14. Switch this sewing machine off ("O") when making any adjustment in the needle area, such as threading the needle, changing the needle, threading the bobbin or changing the presser foot, and the like.
15. Always unplug this sewing machine from the electrical outlet when removing covers, lubricating, or when making any other adjustments mentioned in this owner's manual.

## SAVE THESE INSTRUCTIONS

|                                                                             |
|-----------------------------------------------------------------------------|
| The design and specifications are subject to change without a prior notice. |
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# **JANOME**

795-800-003 (E)

Printed in Taiwan

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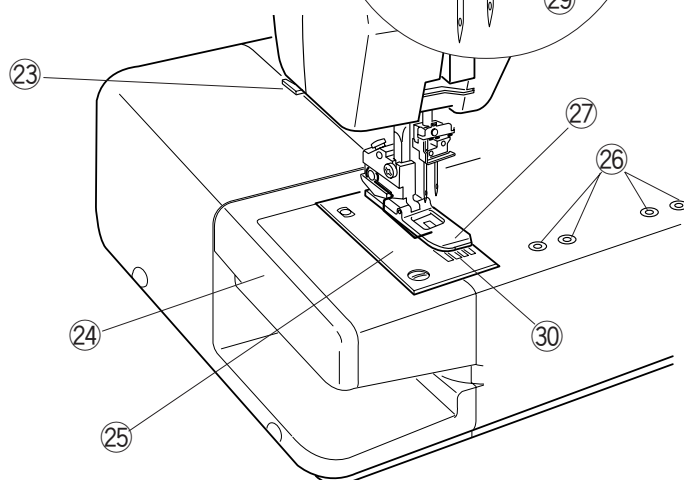
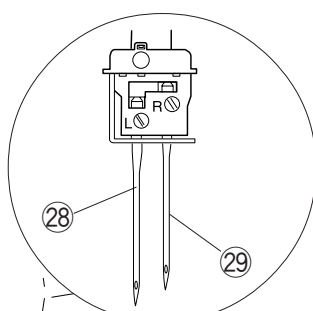
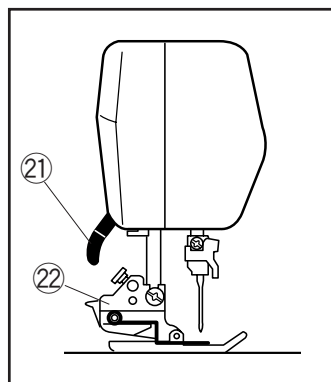
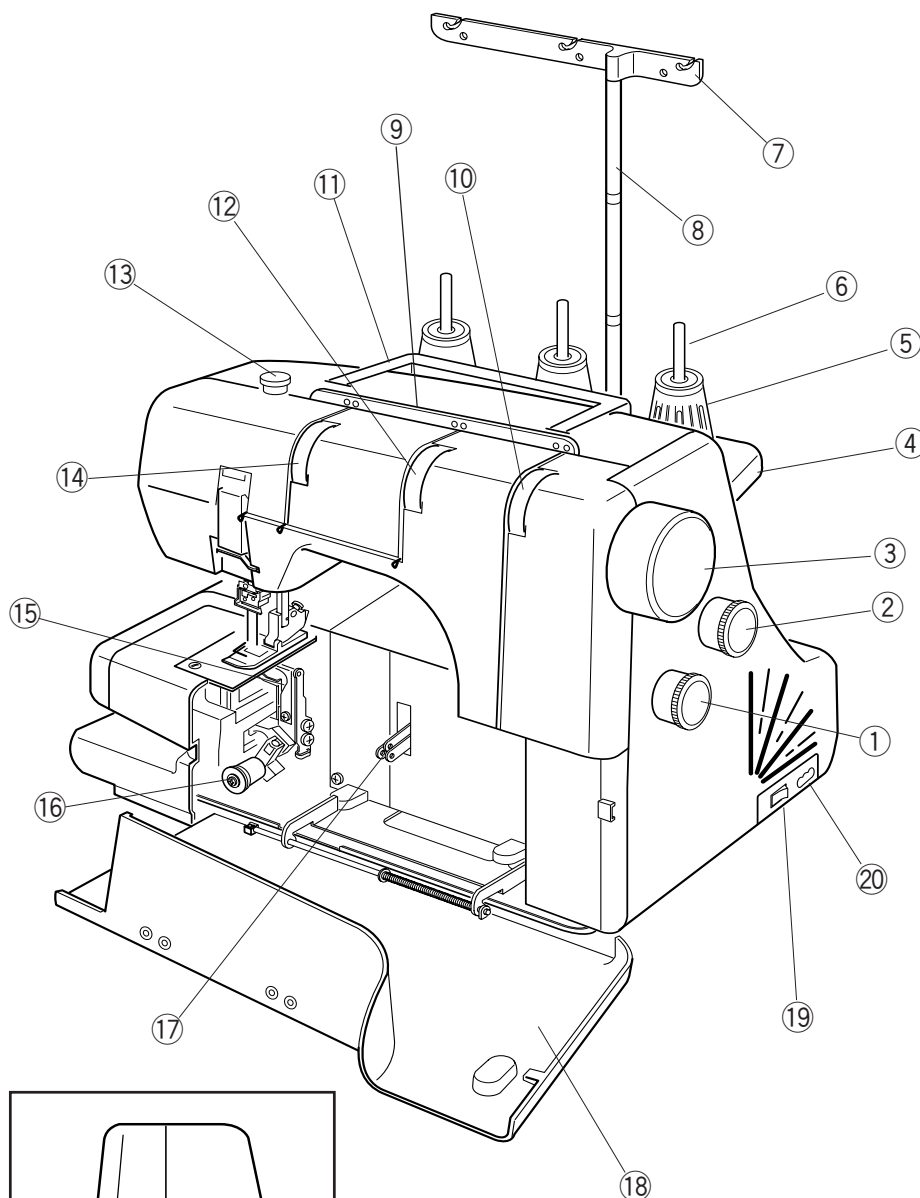
### CARE OF YOUR MACHINE

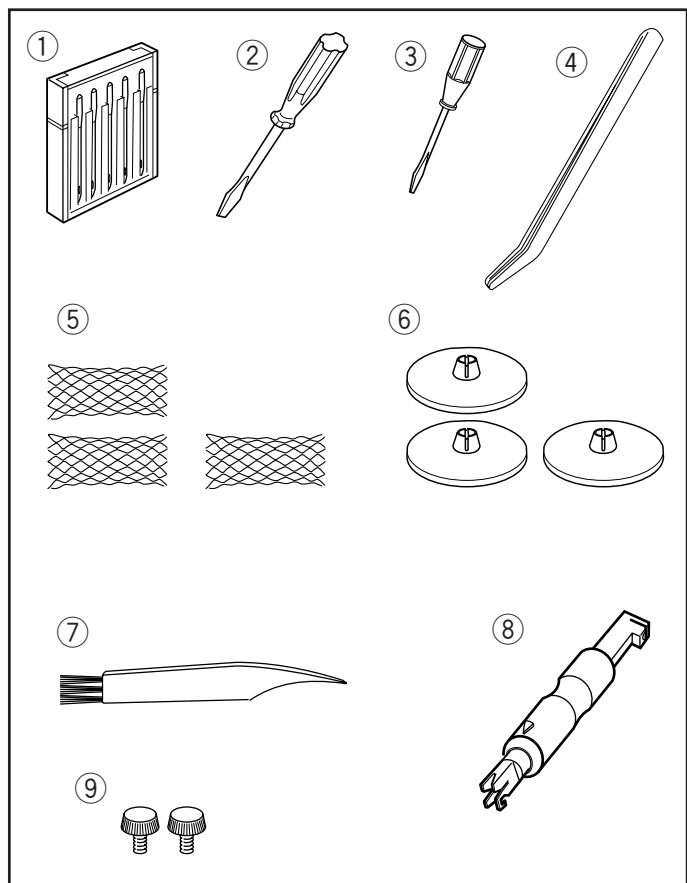
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## KNOW YOUR MACHINE

### Names of Parts

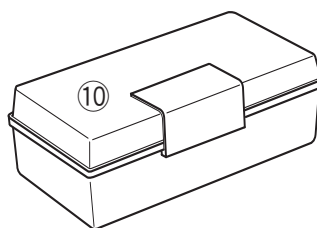
- ① Differential feed dial
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- ③ Handwheel
- ④ Spool stand
- ⑤ Spool holder
- ⑥ Spool pin
- ⑦ Thread guide bar
- ⑧ Thread guide post
- ⑨ Thread guide plate
- ⑩ Looper thread tension dial
- ⑪ Carrying handle
- ⑫ Right needle thread tension dial
- ⑬ Pressure adjusting screw
- ⑭ Left needle thread tension dial
- ⑮ Looper
- ⑯ Looper release knob
- ⑰ Looper thread take-up lever
- ⑱ Looper cover
- ⑲ Power switch
- ⑳ Machine socket
- ㉑ Presser foot lifter
- ㉒ Presser foot holder
- ㉓ Thread cutter
- ㉔ Extension table
- ㉕ Needle plate
- ㉖ Attachment mount
- ㉗ Presser foot
- ㉘ Left needle (#80/12)
- ㉙ Right needle (#80/12)
- ㉚ Feed dogs

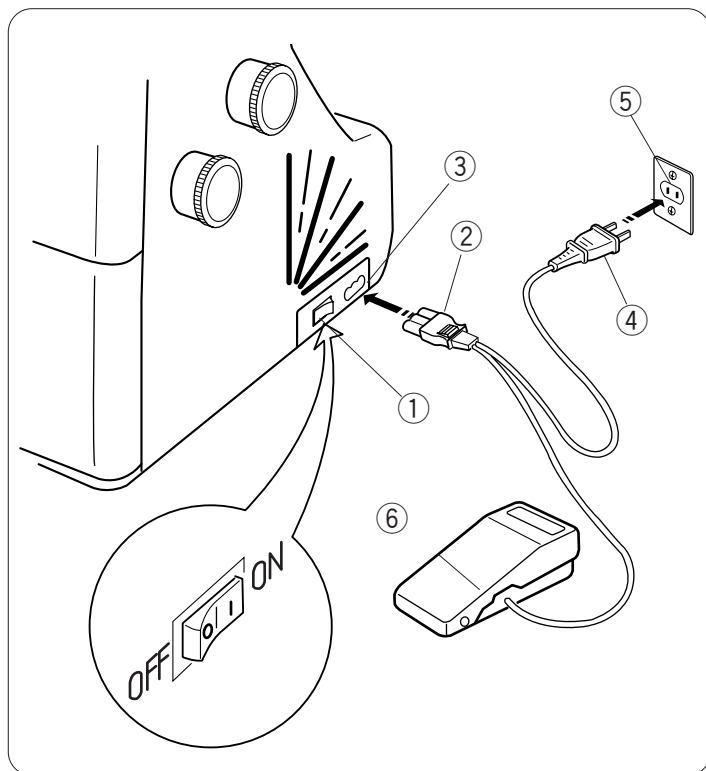




## Standard Accessories

- ① Set of needles: 2 X #80/12, 3 X #90/14 (Schmetz EL X 705)
- ② Screwdriver (Large)
- ③ Screwdriver (Small)
- ④ Tweezers
- ⑤ Nets
- ⑥ Spool holder caps
- ⑦ Lint brush
- ⑧ Needle threader
- ⑨ Attachment screws (for fixing optional accessories)  
(Refer to the instructions of the optional accessory)
- ⑩ Accessory box

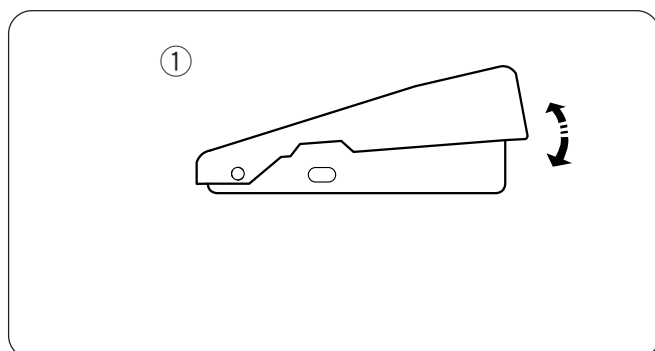




## GETTING READY TO SEW

### Connecting the Machine to the Power Supply

- 1 Turn off the power switch, and connect the machine plug to the machine socket.
- 2 Connect the power supply plug to your power supply.
- 3 Turn on the power switch.
  - ① Power switch
  - ② Machine plug
  - ③ Machine socket
  - ④ Power supply plug
  - ⑤ Power supply
  - ⑥ Foot control



## Controlling Sewing Speed

Sewing speed can be varied by the foot control.

The harder you press on the control, the faster the machine runs.

Step on the foot control with the presser foot lifter up, and practice controlling the speed.

- ① Foot control

## Operating Instructions:

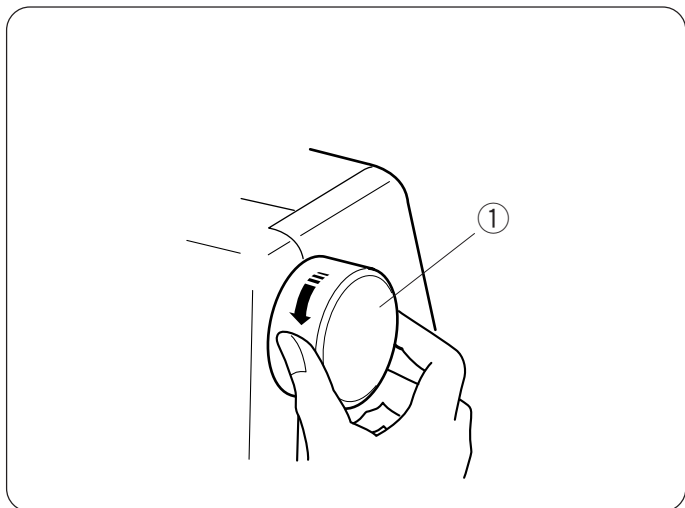
- The symbol “O” of a switch indicates the “off” position of a switch.
- For appliances with a polarized plug (one blade wider than the other): To reduce the risk of electric shock, this plug is intended to fit in a polarized outlet only one way. If it does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not modify the plug in any way.

Foot controller Model YC-482-J  
is for use with sewing  
machine model 900P.

## For Your Safety:

- \* While the machine is in operation, always keep your eyes on the sewing area, and do not touch any moving parts such as the thread take-up lever, loopers, handwheel or needles.
- \* Always disconnect the machine from the power supply:
  - when leaving the machine unattended.
  - when attaching or removing parts.
  - when threading or cleaning the machine.
- \* Do not place anything on the foot control, except when the machine is in use.

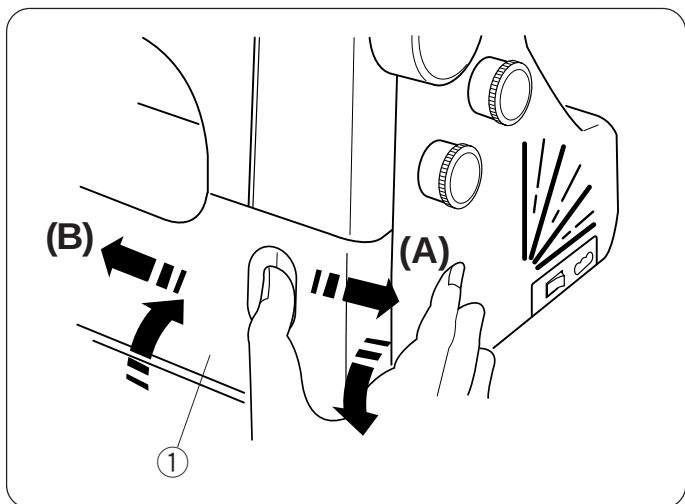




## How to Turn the Handwheel

Always turn the handwheel toward you (Counterclockwise).

- ① Handwheel



## Opening and Closing the Looper Cover

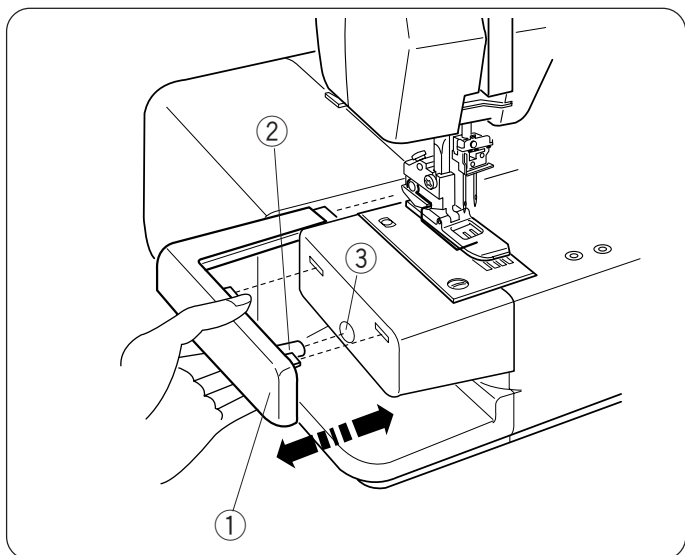
### To open: (A)

While pushing with the thumb to the right as far as it will go, pull the looper cover toward you.

### To close: (B)

Lift the looper cover and push it against the machine. The looper cover snaps into its position automatically.

- ① Looper cover



## Extension Table

The extension table provides added sewing surface and can be easily removed for free arm sewing.

### Detaching the table:

Pull the table away from the machine.

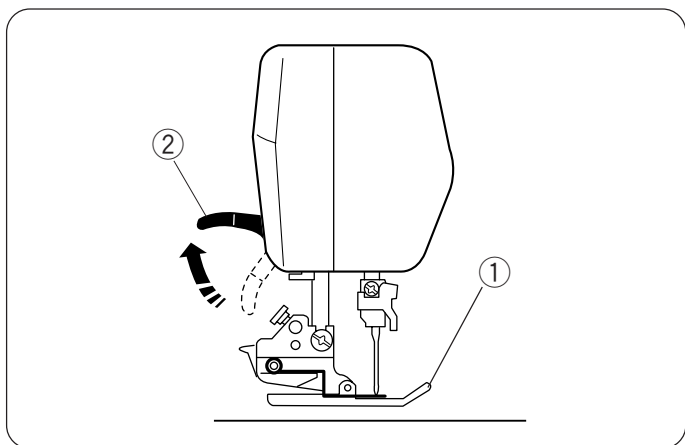
- ① Extension table

### Attaching the table:

Align the pin on the table with the hole in the machine.

Push the extension table until it snaps into the machine.

- ② Pin
- ③ Hole



## Raising or Lowering the Presser Foot

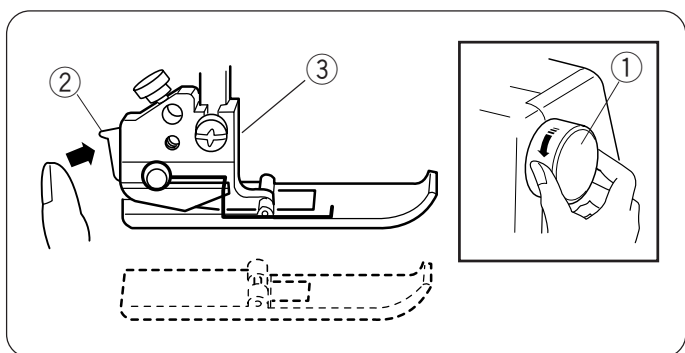
By raising or lowering the presser foot lifter, the presser foot goes up or down.

- \* While in operation, keep the presser foot lowered except when threading the machine or test running without threads.

### NOTE:

Thread tension will be released when the presser foot lifter is raised.

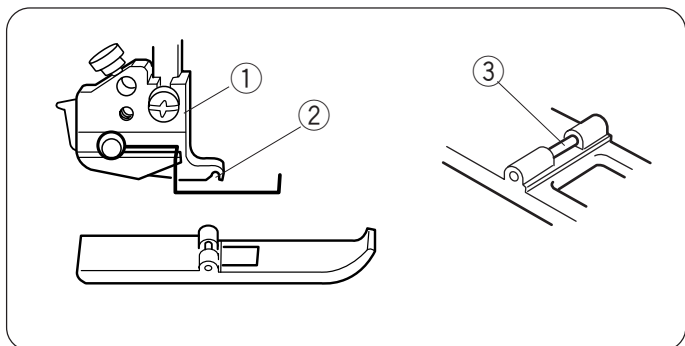
- ① Presser foot
- ② Presser foot lifter



## Removing the Presser Foot

- 1 Turn off the power switch and unplug the machine.
- 2 Turn the handwheel toward you to raise the needle. Raise the presser foot.
- 3 Press the lever located on the back of the foot holder. The presser foot will drop off.

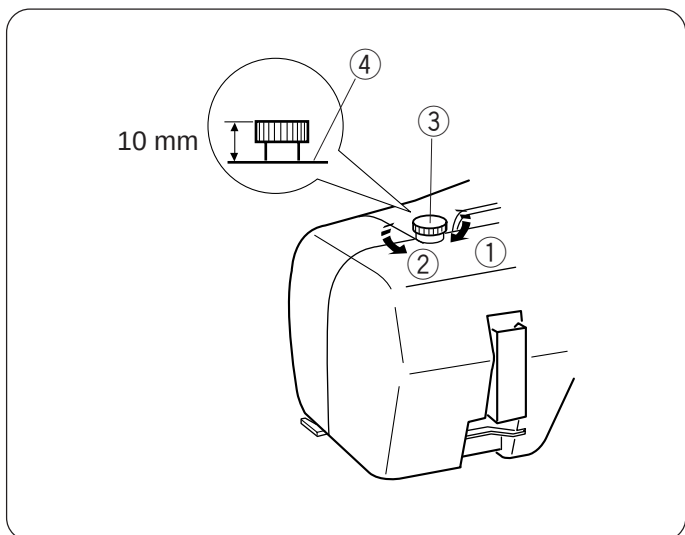
- ① Handwheel
- ② Lever
- ③ Foot holder



## Attaching the Presser Foot

- 1 Turn off the power switch and unplug the machine.
- 2 Place the presser foot so that the pin on the foot lies just under the groove of the foot holder.
- 3 Lower the foot holder to lock the foot into place.
- 4 Raise the presser foot lifter to check that the presser foot is secure.

- ① Foot holder
- ② Groove
- ③ Pin



## Adjustment of Foot Pressure

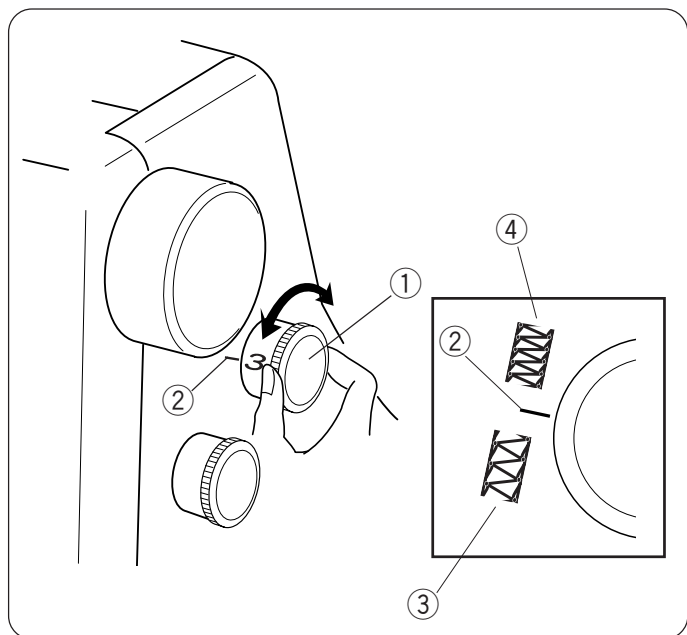
It is not necessary to adjust the presser foot's pressure for normal sewing.

When you sew heavy or lightweight fabrics, turn the adjusting screw:

- clockwise for heavyweight fabric.
- counterclockwise for light weight fabric.

- \* For regular sewing, set the adjusting screw so the head protrudes 10 mm from the top of the machine.

- ① To decrease
- ② To increase
- ③ Adjusting screw
- ④ Top of the machine



## Adjustment of Stitch Length

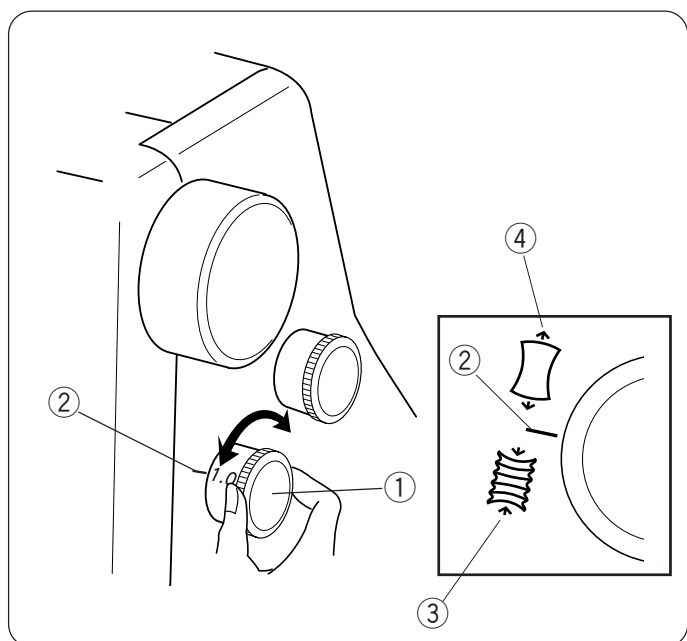
To adjust the stitch length, turn the dial.

The larger the number, the longer the stitch.

The stitch length can be adjusted from 1 to 4 mm.

- ① Stitch length dial
- ② Setting mark
- ③ To lengthen
- ④ To shorten

\* For regular sewing, set the stitch length at 3 – 3.5.



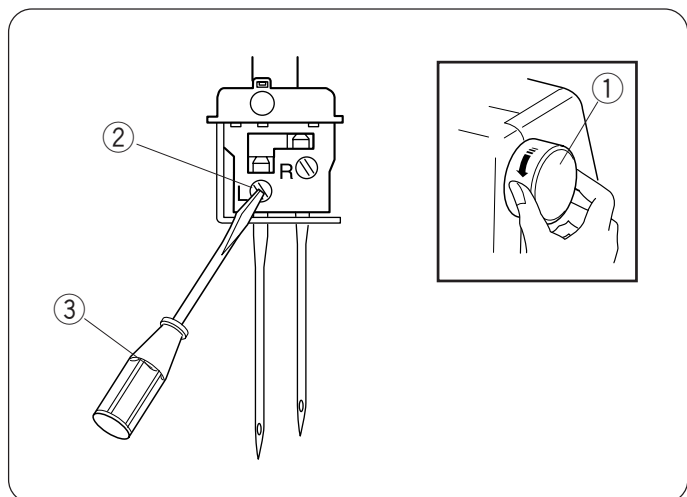
## Adjustment of Differential Feed Ratio

The differential feed ratio can be altered by turning the dial.

The number on the dial indicates the ratio between the main and the sub feed motion.

- Set the dial at 1.0 for regular sewing.
- Set the dial at a lower number when sewing fine fabrics that tend to pucker.
- Set the dial at a higher number when sewing stretch fabrics such as knits, jersey and tricot.

- ① Differential feed dial
- ② Setting mark
- ③ To shrink
- ④ To stretch



## Changing Needle



### **WARNING:**

Turn the power switch off and unplug the machine before changing needles.

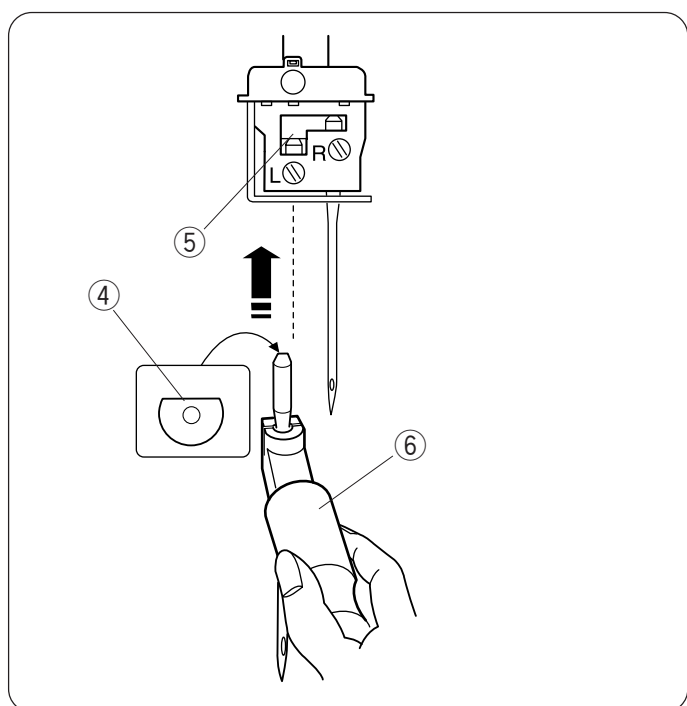
Turn the handwheel toward you to raise the needle to its highest position.

① Handwheel

Then loosen the needle clamp screw for the needle you are going to remove.

② Needle clamp screw

③ Small screwdriver



Insert a new needle into the needle clamp with the flat side to the back and push it up against the stopper, then tighten the needle clamp screw.

④ Flat side

⑤ Stopper

### **How to use the needle threader/holder**

To attach the needle easily, use the end of the needle threader to hold the needle.

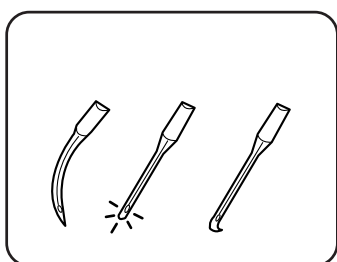
Insert a needle into the needle threader/holder with the flat side facing back as shown.

Hold the stem and insert the needle into the needle clamp and push it up as far as it will go.

Tighten the needle clamp screw firmly while supporting the holder in place.

Pull the holder down to remove it.

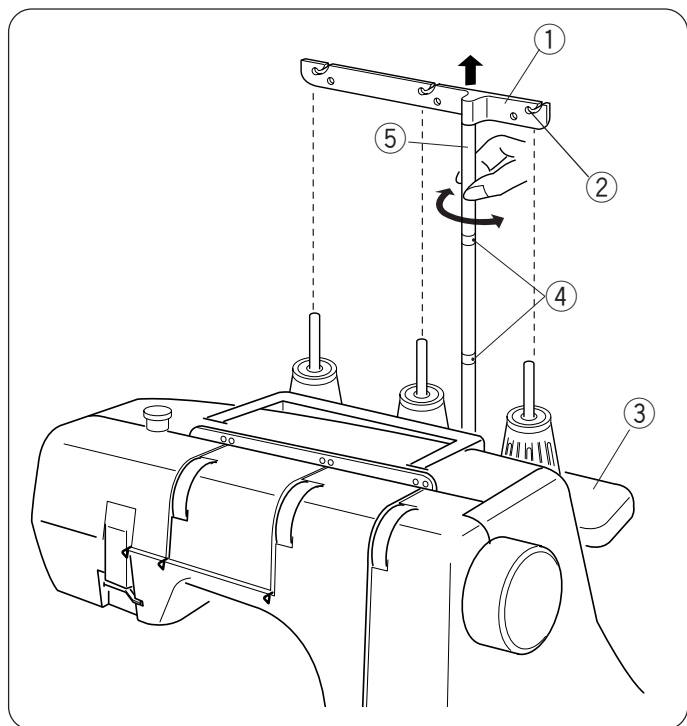
⑥ Needle threader/holder



### **NOTES:**

Use Schmetz needles EL X 705 size 80/12 or EL X 705 size 90/14.

Do not use any needle which is bent or blunt.



## Setting the Thread Guide Bar

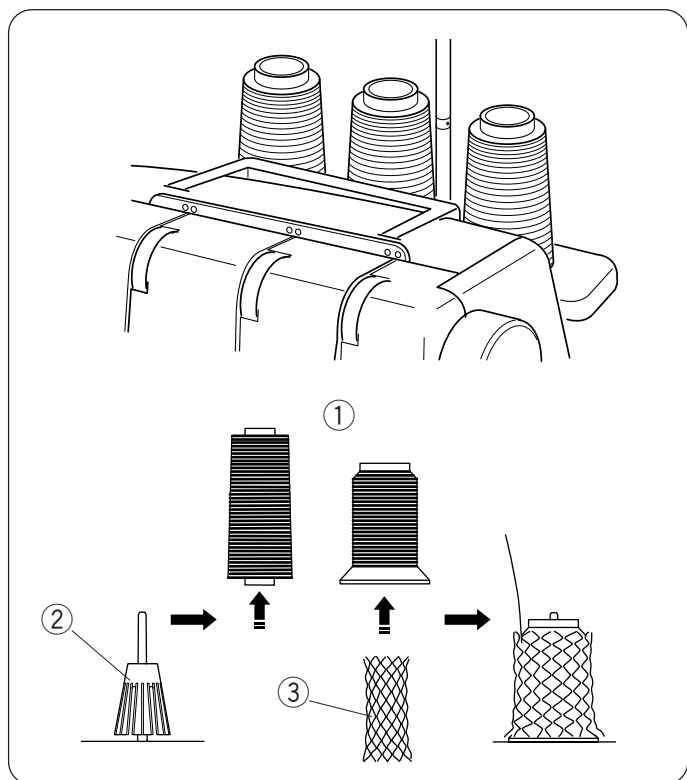
Pull the thread guide bar up as far as it will go.

Turn the thread guide bar so that the thread guides are right above the spool pins.

- ① Thread guide bar
- ② Thread guide
- ③ Spool pin
- ④ Stoppers
- ⑤ Thread guide post

### NOTE:

Make sure the two stoppers on the thread guide post, as shown, are set in at the correct position.

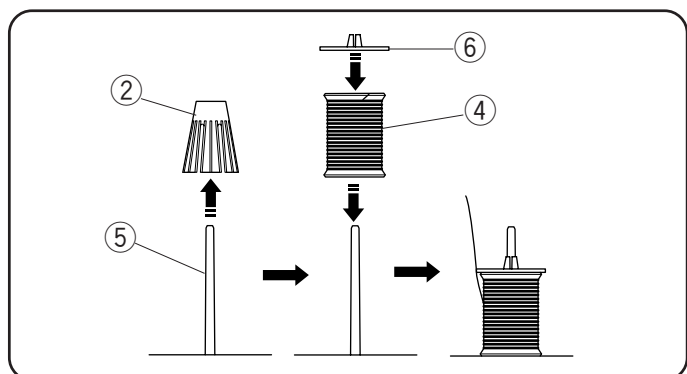


## Setting the Spool Cones

Place the spool cones on the spool holders.

If the thread slips down from a spool cone during threading and/or sewing, put a net over the spool cone as illustrated to prevent jamming.

- ① Spool cone
- ② Spool holder
- ③ Net



When using small spools, remove the spool holders from the spool pins.

- ④ Small spool of thread
- ⑤ Spool pin

Place the spool with its slit side up, and put the spool holder cap on top of it.

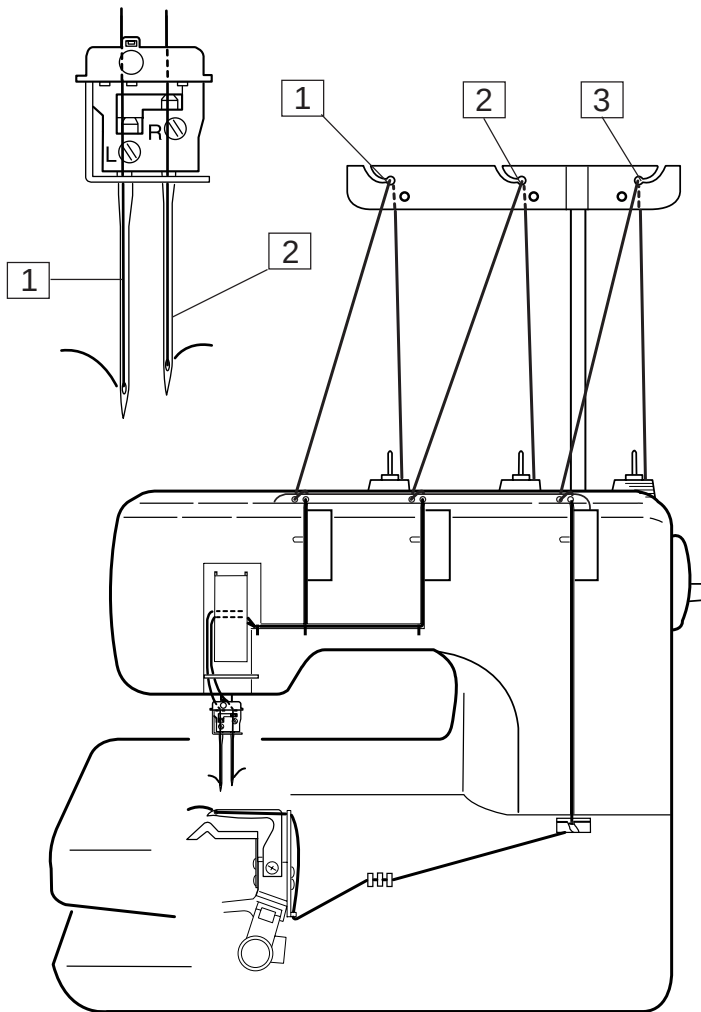
- ⑥ Spool holder cap

## Threading the Machine



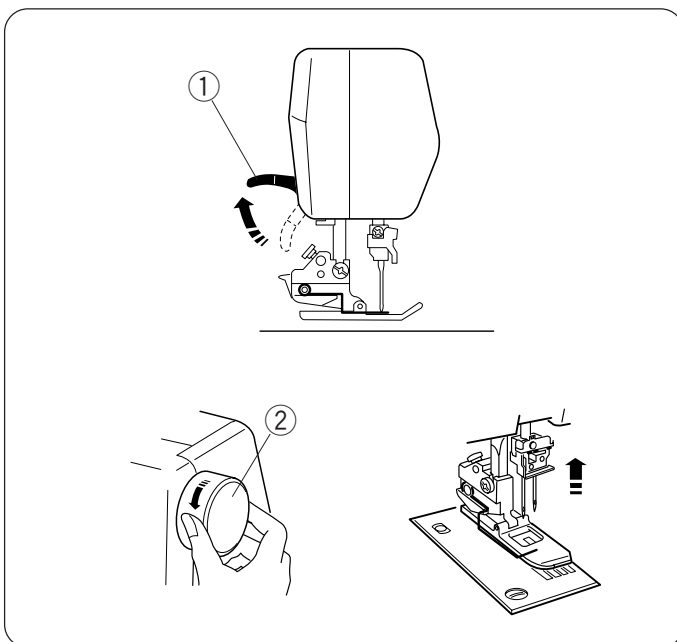
### WARNING:

Turn the power switch off and unplug the machine before threading the machine.



Thread the machine in the following order:

- 1 Left needle thread
- 2 Right needle thread
- 3 Looper thread



Raise the presser foot lifter.

- ① Presser foot lifter

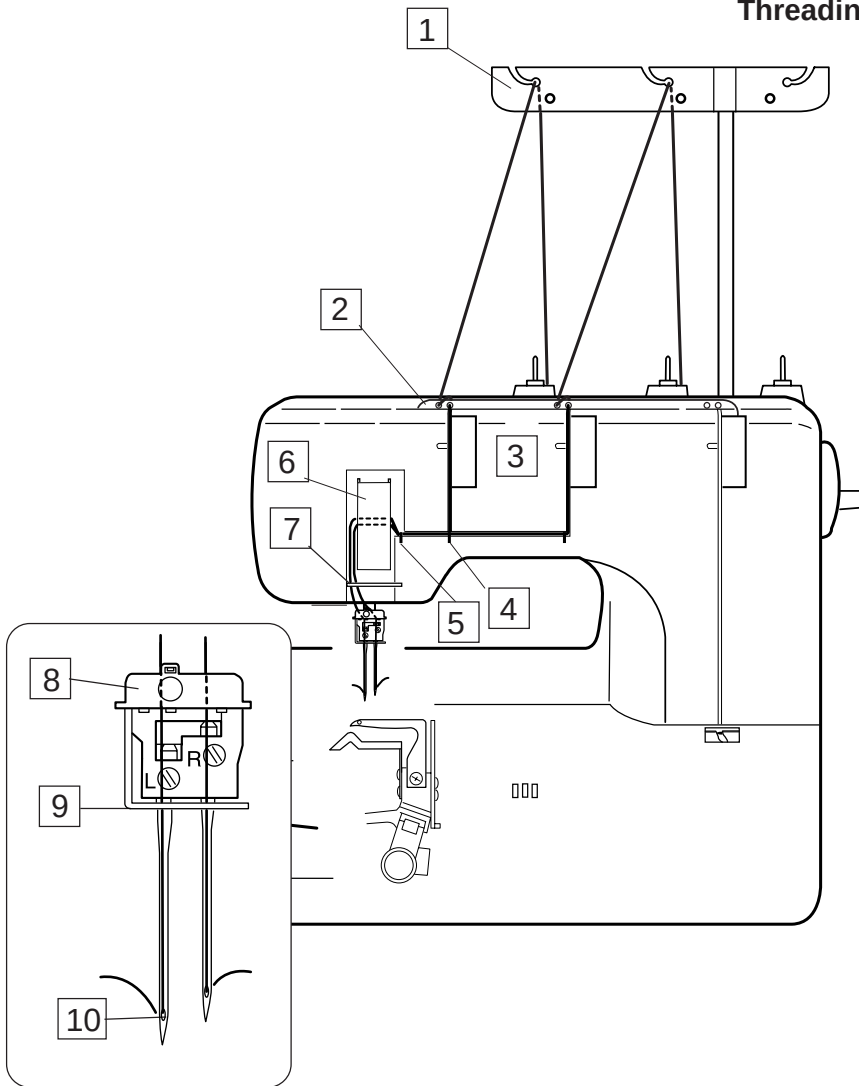
### NOTE:

Always thread the machine with the presser foot raised.

Turn the handwheel toward you to bring the needles to their highest position.

- ② Handwheel

## Threading the needles



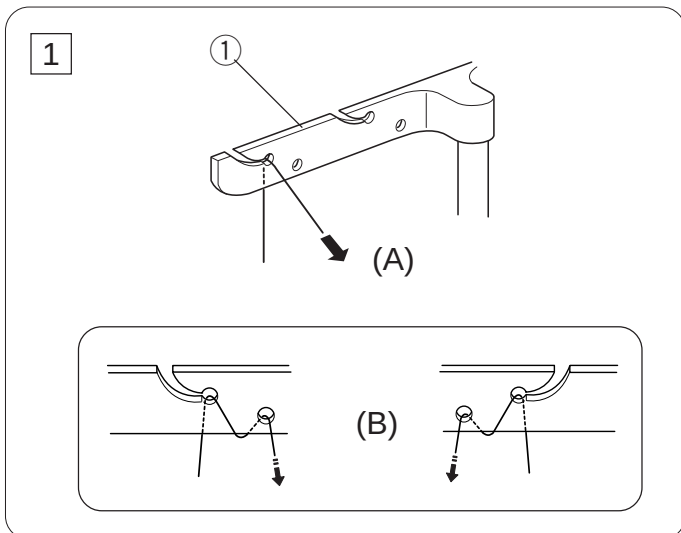
### Thread each needle in the following steps:

- 1 Draw the thread through the Left side thread guide bar from back to front as shown (A).

#### NOTE:

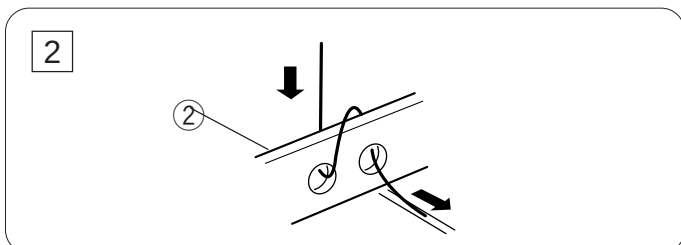
If the thread is coming out from the thread guide notch, pass the thread through the thread guide hole again as shown (B).

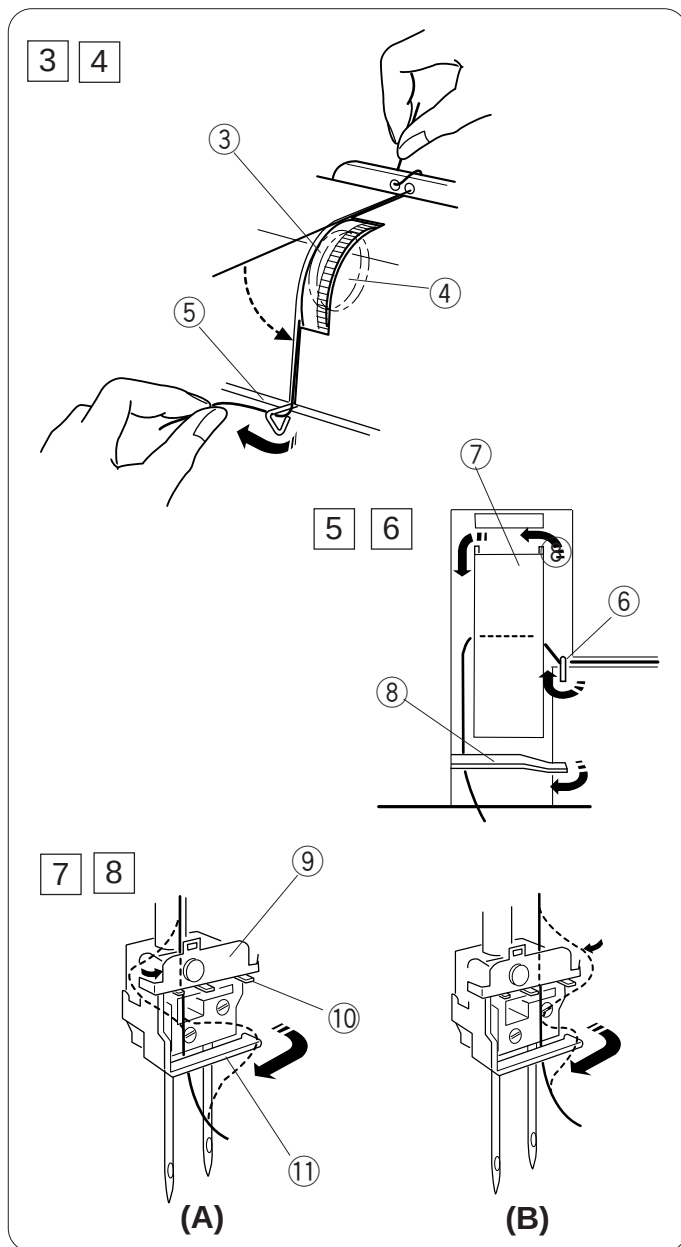
- ① Thread guide bar



- 2 Pass the thread through the holes on the right side of the thread guide plate as illustrated.

- ② Thread guide plate



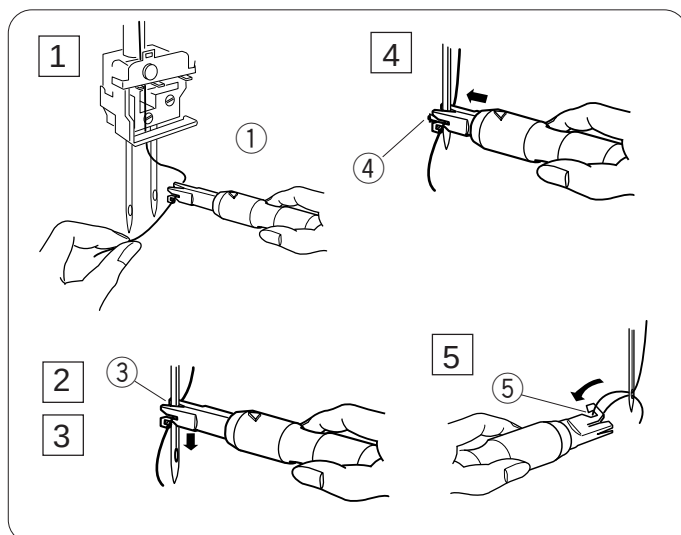


- 3 Hold the thread at both ends and tug gently to ensure the thread is correctly inserted between the tension disks. ( If the presser foot lifter is raised, the thread easily inserts between the tension discs.)
  - ③ Tension dial
  - ④ Tension disks
- 4 Pass the thread through the thread guide (A) from the right.
  - ⑤ Thread guide (A)
- 5 Draw the thread to the left and pass it through the thread guide (B). Draw the thread up and slip it behind the take-up lever cover.
  - ⑥ Thread guide (B)
  - ⑦ Take-up lever cover
- 6 Pull the thread down and slip it behind the thread guide (C) from the right.
  - ⑧ Thread guide (C)
- 7 Thread each needle as follows:
 

**Left Needle (A):** Pass the thread behind the thread guide plate from the left. Pass the thread between the left and center prongs.

**Right needle (B):** Pass the thread behind the thread guide plate from the right. Pass the thread between the right and center prongs.

  - ⑨ Thread guide plate
  - ⑩ Prongs
- 8 Slip all the threads behind the needle bar thread guide from the right. Thread each needle with the threader (see below).
  - ⑪ Needle bar thread guide

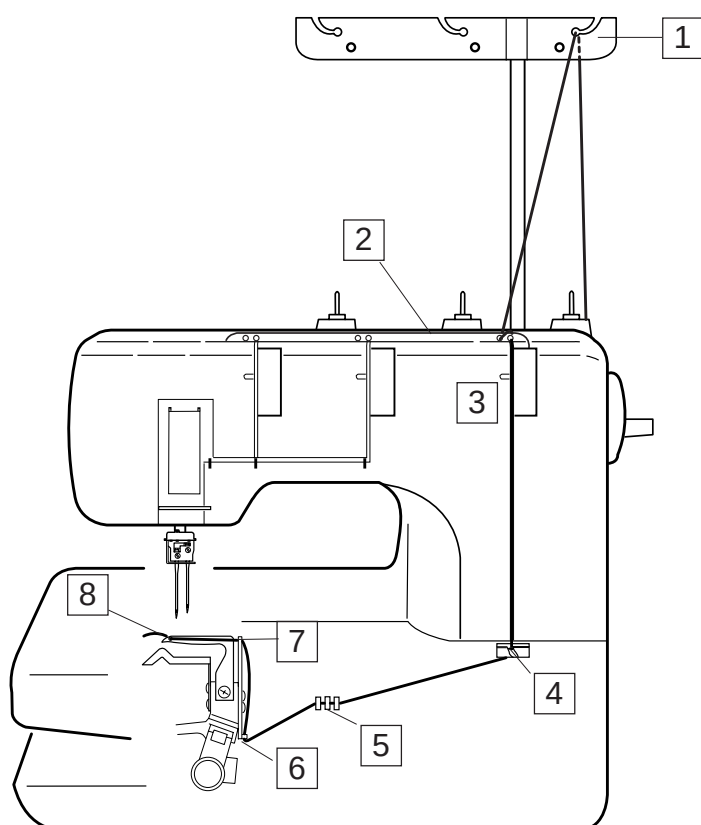


### How to use the threader

- 1 Hold the grip of the threader with the triangle mark up. Insert the thread into the slit of the Y-shaped notch.
  - ① Triangle mark
  - ② Y-shaped notch
- 2 Place the V-shaped notch over the needle just above the needle eye.
- 3 Slide the threader down along the needle while pushing it against the needle, until the threader pin enters into the needle eye.
  - ③ V-shaped notch
  - ④ Threader pin
- 4 Push the threader and the thread will go through the needle eye.
- 5 Remove the threader from the needle. Then pick up the loop of the thread with the hook. Pull the thread end out to the back.
  - ⑤ Hook



## Threading the looper



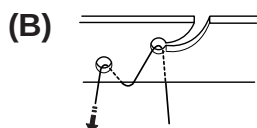
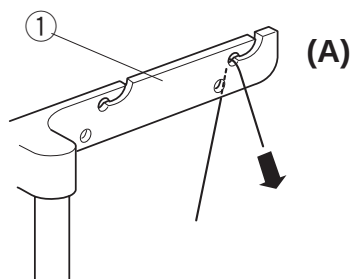
### Thread the looper in the following steps:

- 1 Draw the thread through the right side thread guide bar from back to front as shown (A).

#### NOTE:

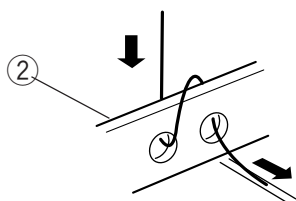
If the thread is coming out from the thread guide notch, pass the thread through the thread guide hole again as shown (B).

- ① Thread guide bar

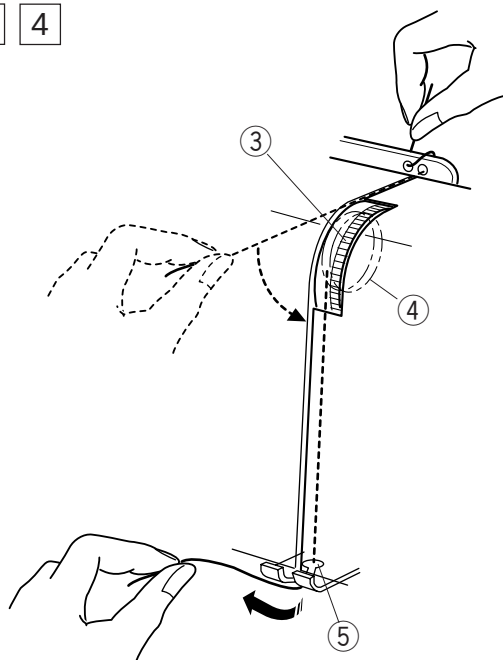


- 2 Pass the thread through the holes on the right side of the thread guide plate as illustrated.

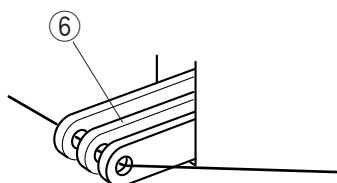
- ② Thread guide plate



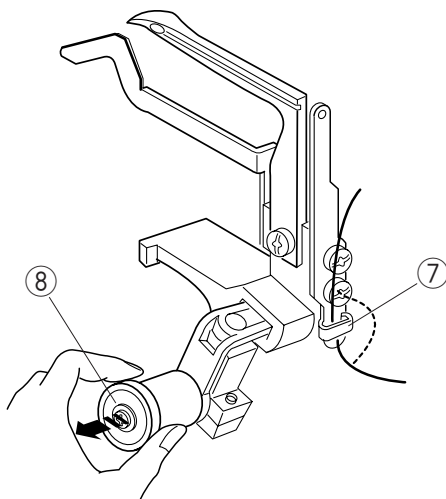
3 4



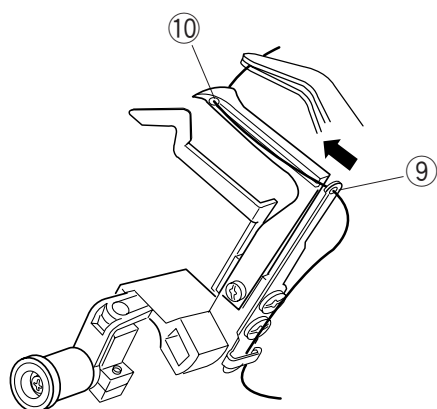
5



6 7



8 9



3 Hold the thread at both ends and tug gently to ensure the thread is correctly inserted between the tension disks. ( If the presser foot lifter is raised, the thread easily inserts between the tension disks.)

③ Tension dial

④ Tension disks

4 Pass the thread through the looper thread guide (A) from the right.

⑤ Looper thread guide (A)

5 Pass the thread through the eyes of the looper take-up levers.

⑥ Looper take-up lever

**NOTE:**

Be sure to raise the needles to the highest position so the eyes of the looper take-up levers will align.

6 Slip the thread behind the looper thread guide (B) from the right.

⑦ Looper thread guide (B)

7 Pull the looper release knob and the looper will slant to the right for easy access.

⑧ Looper release knob

8 Pass the thread through the eye of the looper thread guide (D) then through the eye of looper. Draw the thread end 4" (10 cm) to the back.

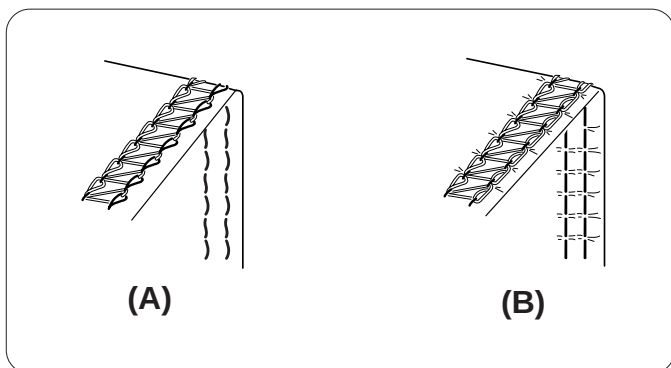
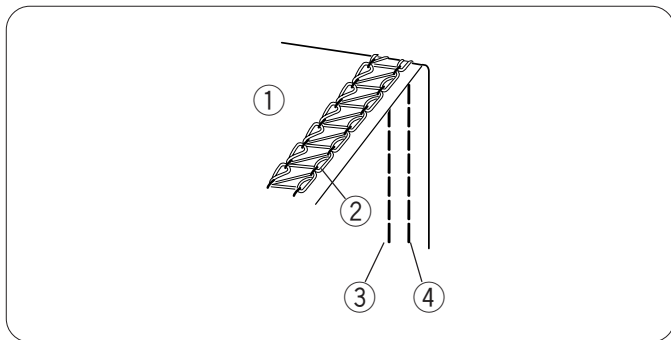
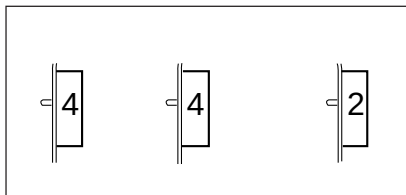
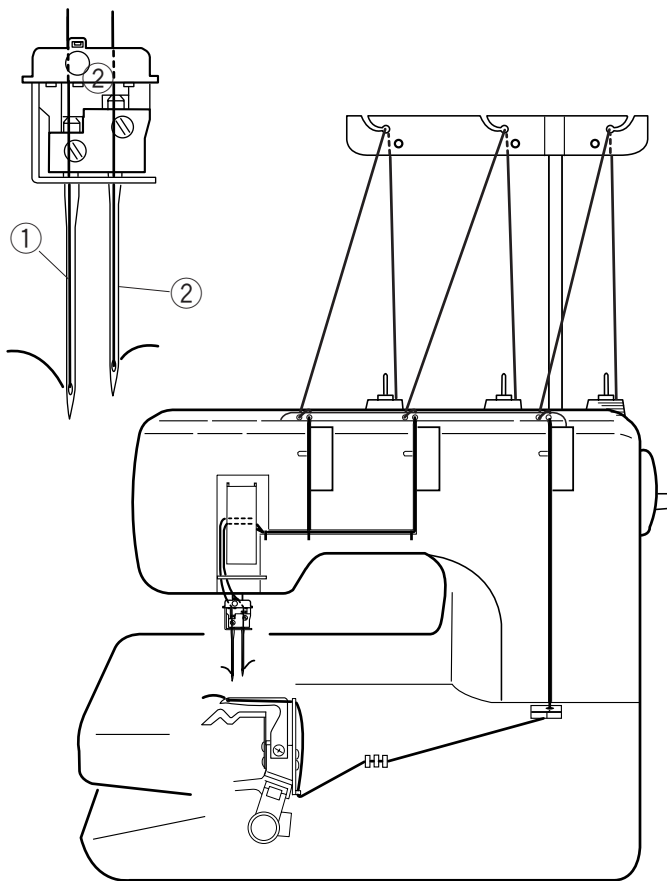
⑨ Looper thread guide (D)

⑩ Eye of the looper

**NOTE:**

You may use a pair of tweezers.

9 Push the looper in the direction of the arrow, back to the original position.



## STITCH TYPES

### Cover Stitch

This stitch forms 5 mm wide two parallel rows of the straight stitch on the right side, widely used on cuffs and stretch welts of T-shirts etc.

- ① Left needle
- ② Right needle

| Type of Fabric         |                           | Needle Size       | Type of Thread |
|------------------------|---------------------------|-------------------|----------------|
| Light to medium weight | Fine knits<br>Fine Jersey | 80/12 or<br>90/14 | #60-90 Spun    |
| Heavyweight            | Jersey<br>Fleece          | 90/14             | #60 Spun       |

**NOTE:** The machine is installed with the #80/12 needles.

### Balancing the thread tension

- 1 Set the tension dials as follows:
  - ① Left needle thread tension dial: 4
  - ② Right needle thread tension dial: 4
  - ③ Looper thread tension dial: 2
- 2 Check the tension balance by test stitching on the same fabric and threads as actual garment. Fine-tune the tension as necessary.

### Balanced tension:

The rows of stitches on the right side of the fabric are straight and even. The looper thread forms a row of squares with diagonals.

- ① Wrong side of the fabric
- ② Looper thread
- ③ Left needle thread
- ④ Right needle thread

### (A) If the needle thread tension is too loose:

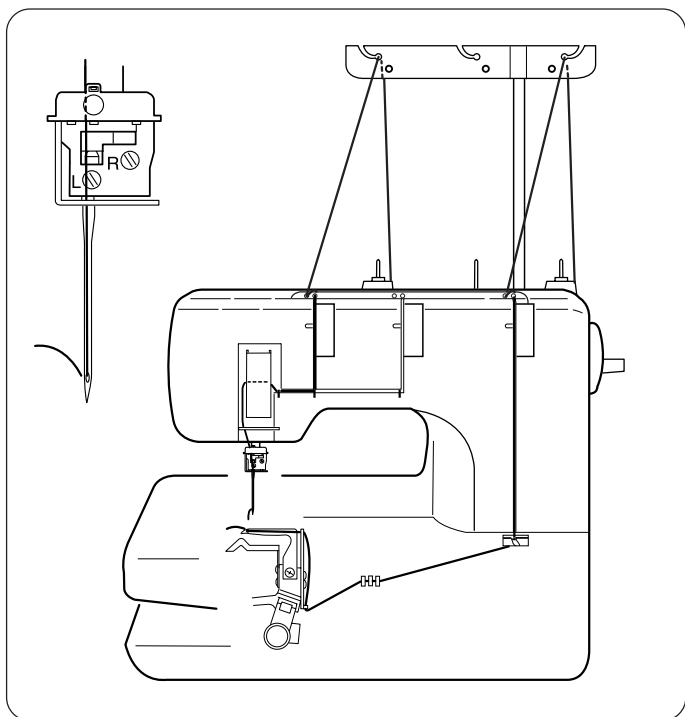
- The stitches on the right side are irregular and loose.
- There is a gap between head and tail of the looper thread crossing points.

Tighten the needle thread tension, and/or loosen the looper thread tension to correct it.

### (B) If the needle thread tension is too tight:

- The fabric puckers.

Loosen the needle thread tension, and/or tighten the looper thread tension to correct it.



## Chain Stitch

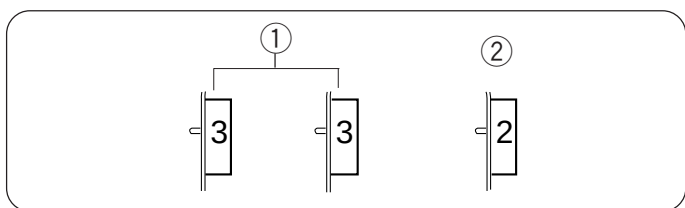
This stitch is sewn with a single needle and forms a chain of looper thread on the wrong side of the fabric.

This is a durable and flexible stitch used for seaming knit fabrics, attaching elastics, attaching bias tapes etc.

Thread one of the three needles and looper. Remove the needles not to be used (see page 8).

### NOTE:

Tighten the needle clamp screw on the side that is not being used to prevent losing the screws.



## Balancing the thread tension

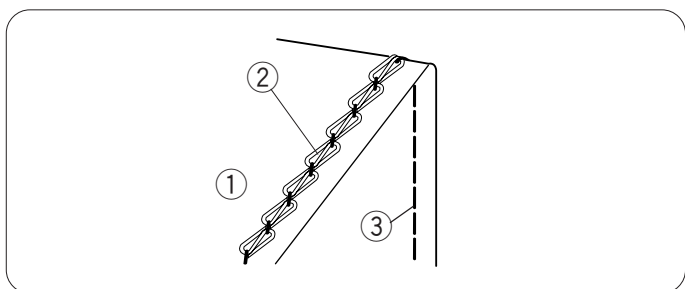
### 1 Set the tension dials as follows:

- ① Needle thread tension dial: 3
- ② Looper thread tension dial: 2

### NOTE:

Adjust the tension dial for the needle being used.

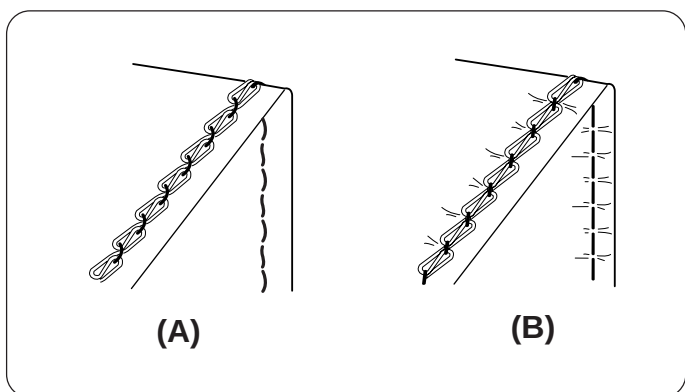
- ### 2 Check the tension balance by test stitching on the same fabric and threads as actual garment. Fine-tune the tension as necessary.



### Balanced tension:

The straight stitch on the right side of the fabric is straight and even. The looper thread forms a chain.

- ① Wrong side of the fabric
- ② Looper thread
- ③ Needle thread



### (A) If the needle thread tension is too loose:

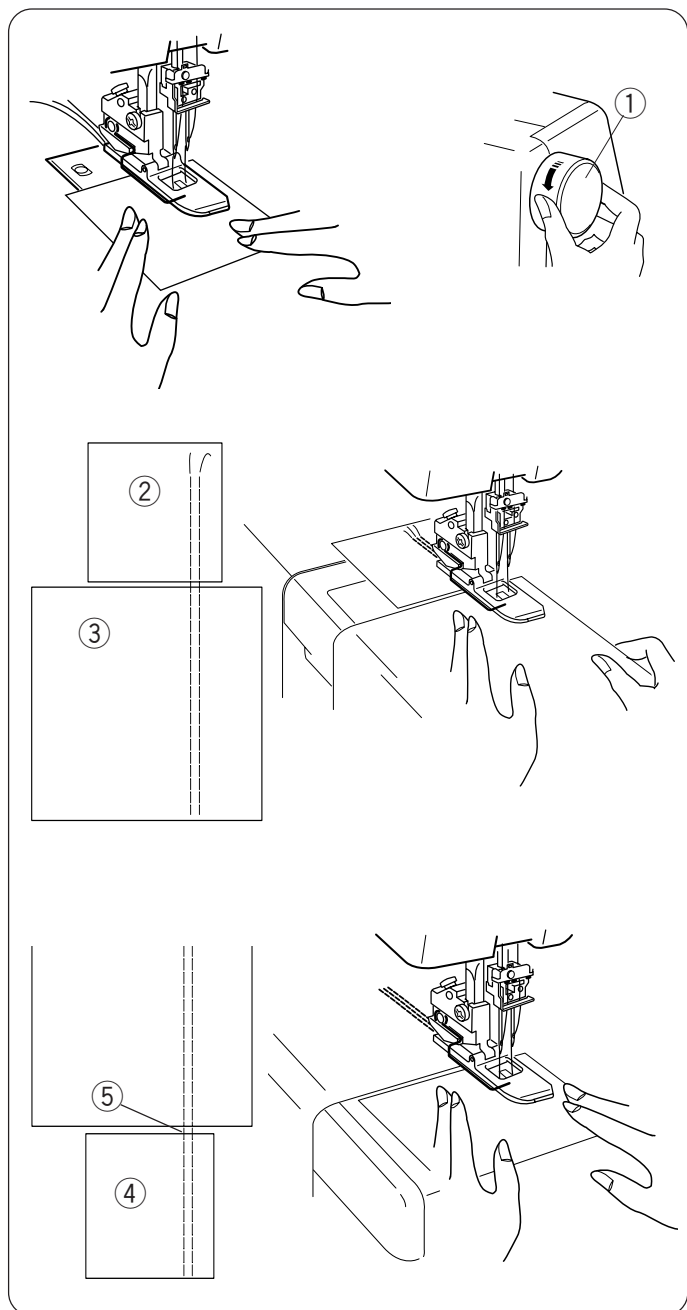
- The stitch on the right side is irregular and loose.
- The needle thread forms loops on the wrong side of the fabric.

Tighten the needle thread tension, and/or loosen the looper thread tension to correct it.

### (B) If the needle thread tension is too tight:

- The fabric puckers.

Loosen the needle thread tension, and/or tighten the looper thread tension to correct it.



## Finishing the Seam

To achieve the best results, use a piece of scrap fabric at the beginning and end of the seam.

### Beginning of the seam

- 1 Raise the presser foot and insert a piece of scrap fabric under the foot. Lower the foot and turn the handwheel several times toward you. Depress the foot control to start sewing slowly.

① Handwheel

- 2 Stop sewing at the end of the scrap fabric. Insert the work fabric after the scrap as shown, then start sewing on the work fabric.

② Scrap fabric

③ Work fabric

### End of the seam

- 3 Stop sewing at the end of the work fabric. Insert another piece of scrap fabric after the work fabric as shown, then sew through the scrap.

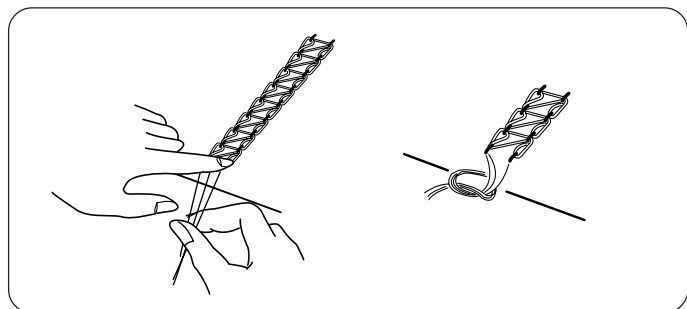
④ Another scrap fabric

- 4 Cut the connecting threads between the work fabric and scrap fabric.

⑤ Connecting threads

### Knotting the threads

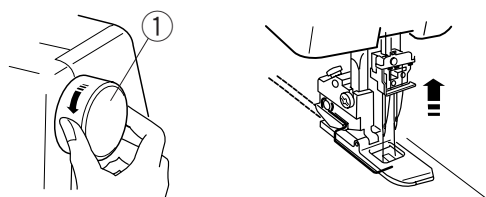
Draw the needle threads to the wrong side of the fabric by using a pair of tweezers and knot them together.



## Removing the Fabric in the Middle of the Stitching

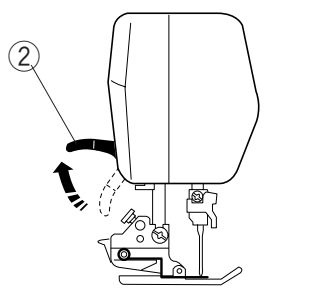
- 1 Raise the needles to their highest position by turning the handwheel toward you.

① Handwheel

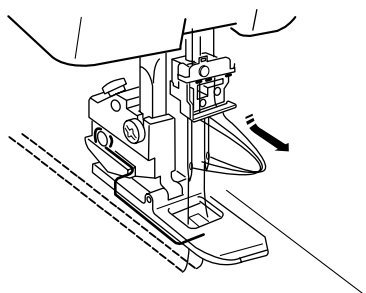


- 2 Raise the presser foot with the presser foot lifter.

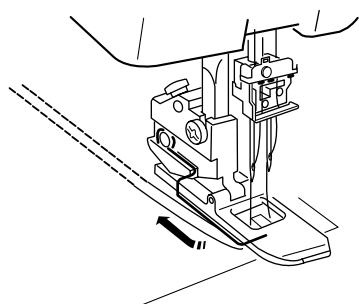
② Presser foot lifter



- 3 Pull the needle threads before the needle eyes. This prevents the threads from being caught when removing the fabric.

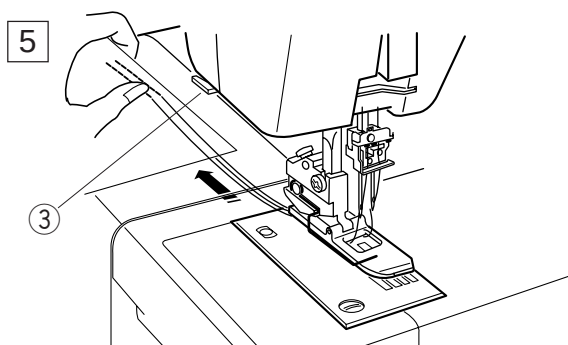


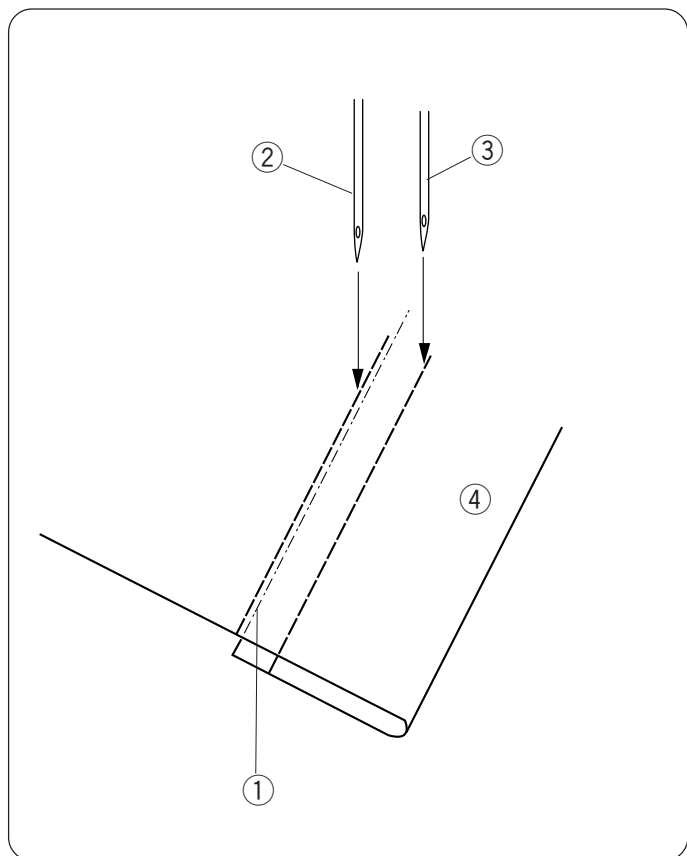
- 4 Pull the fabric to the rear.



- 5 Remove the fabric and cut the threads with the thread cutter.

③ Thread cutter

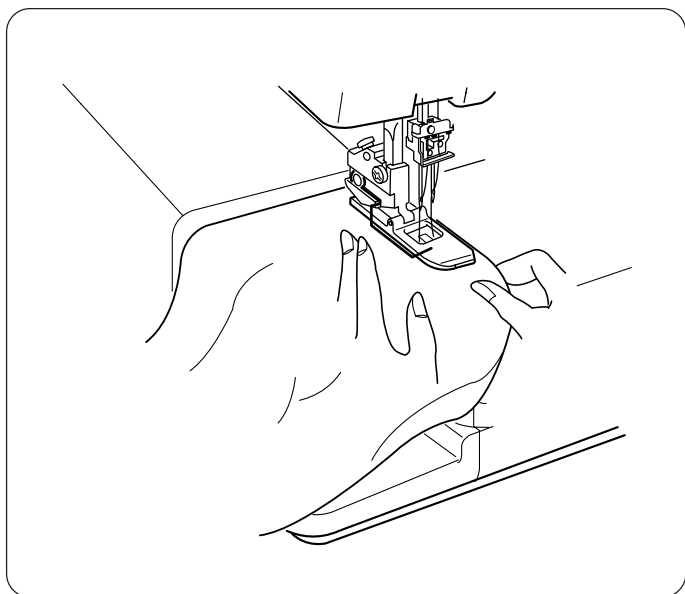




## Hemming with the Cover Stitch

- 1 Fold up the edge of the fabric to the wrong side and press.
- 2 Draw a line with a tailor's chalk on the right side of the fabric to mark the fabric edge.
- 3 Place the fabric so the left needle drops just to the left side of the marked line. Lower the presser foot.
- 4 Sew carefully along the marked line.
- 5 After finishing sewing, raise the presser foot and remove the fabric to the rear.
- 6 Draw the needle threads to the wrong side of the fabric and knot them together.

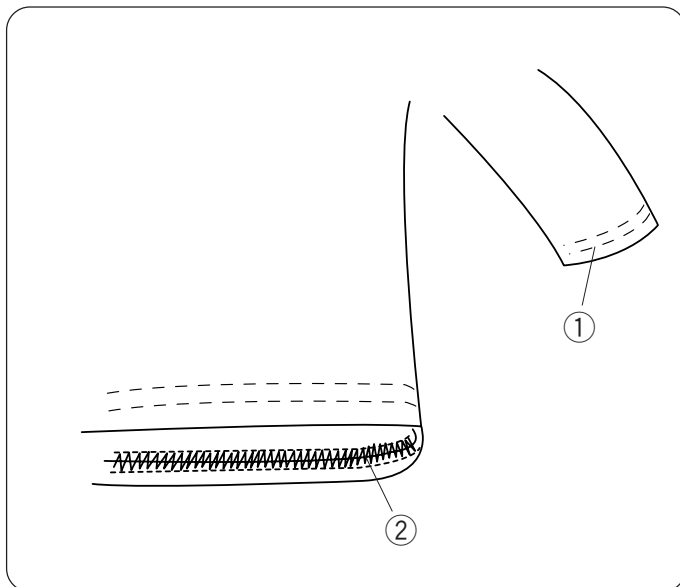
- ① Marked line
- ② Left needle
- ③ Right needle
- ④ Right side of the fabric



## Free Arm Hemming

The extension table can be detached for free arm hemming on the tubular parts of the garments, such as sleeves, cuffs etc.

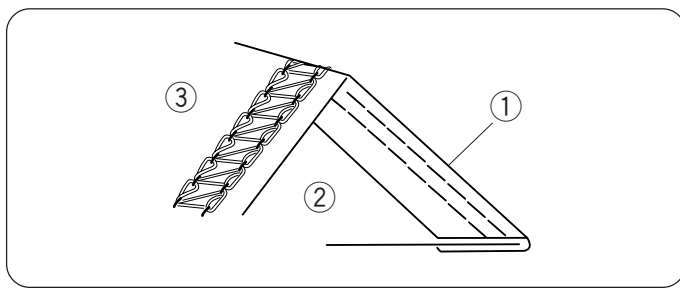
- 1 Detach the extension table (see page 5).
- 2 Stitch the hem in the same way as hemming with cover stitch.
- 3 Continue to sew over the stitches 2" (4 to 5 cm) beyond the beginning of the seam and stop the machine.  
Cut the threads at the beginning and at the end.



## Cover Stitch Applications

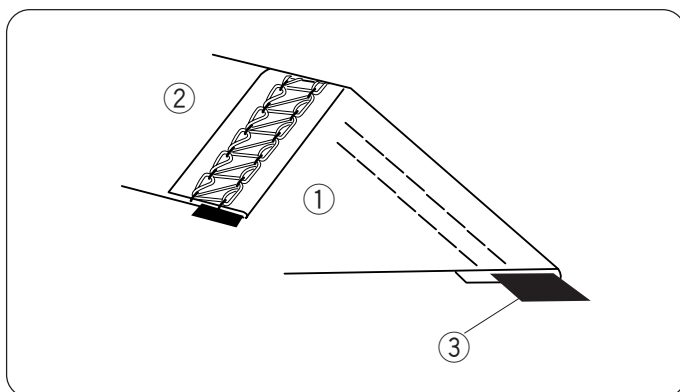
### Hemming on sleeves and waistlines

- ① Sleeve
- ② Waistline



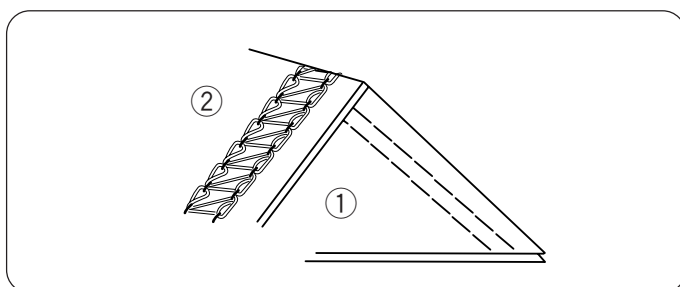
### Attaching laces and tapes

- ① Tape or lace
- ② Right side of the fabric
- ③ Wrong side of the fabric



### Attaching elastics

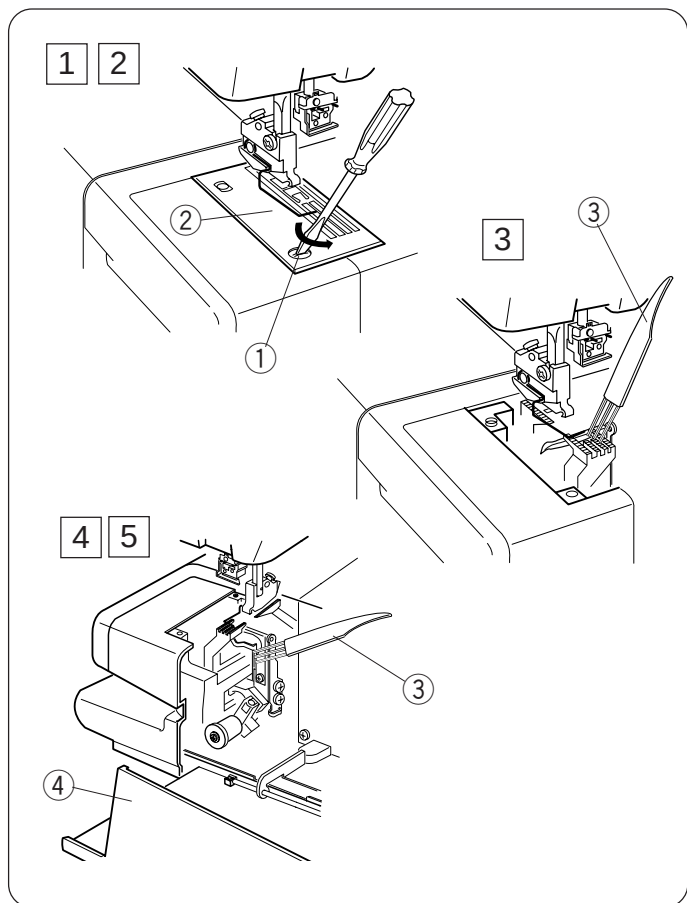
- ① Right side of the fabric
- ② Wrong side of the fabric
- ③ Elastic



### Decorative stitch

- ① Right side of the fabric
- ② Wrong side of the fabric





## CARE OF YOUR MACHINE

### Cleaning the Feed Dogs and Looper Area



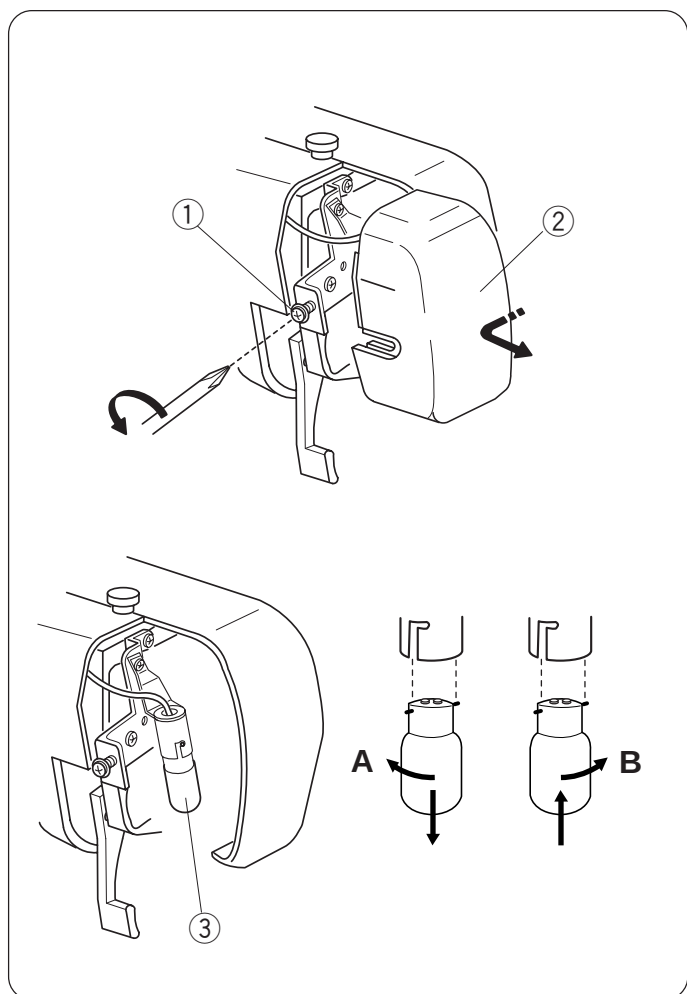
#### **WARNING:**

Turn the power switch off and unplug the machine before cleaning.

#### **NOTE:**

Do not dismantle the machine in any way other than what is explained in this section.

- 1 Remove the presser foot and needles.
- 2 Remove the setscrew and needle plate.
- 3 Clean the feed dogs with a lint brush.
  - ① Setscrew
  - ② Needle plate
  - ③ Lint brush
- 4 Open the looper cover and clean the looper and surrounding area with the lint brush.
- 5 Replace the needle plate, needles and presser foot. Close the looper cover.
  - ④ Looper cover



### Replacing the Light Bulb



#### **WARNING:**

Turn the power off before replacing the light bulb. The bulb could be HOT, wait until it has cooled down before touching it.

- 1 Remove the setscrew and face plate.
- 2 Push up and twist the bulb counterclockwise (in the direction "A") to remove it. Push up and twist the bulb clockwise (in the direction "B") to replace it.
- 3 Attach the face plate with the setscrew.
  - ① Setscrew
  - ② Face plate
  - ③ Light bulb

## Troubleshooting

| Problem                   | Cause                                                                                                                                                                                                                                                              | Reference                                                                                                 |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Needle thread breaks.     | <ol style="list-style-type: none"> <li>1. The machine is not threaded correctly.</li> <li>2. The thread tension is too tight.</li> <li>3. The needle is bent or blunt.</li> <li>4. The needle is not set correctly.</li> <li>5. A wrong needle is used.</li> </ol> | <p>See pages 10-14.</p> <p>See pages 15, 16.</p> <p>See page 8.</p> <p>See page 8.</p> <p>See page 8.</p> |
| Needle bends or breaks.   | <ol style="list-style-type: none"> <li>1. The needle is bent or blunt.</li> <li>2. The needle is not set correctly.</li> <li>3. The needle clamp screw is loose.</li> <li>4. The fabric is forcedly pulled.</li> </ol>                                             | <p>See page 8.</p> <p>See page 8.</p> <p>See page 8.</p> <p>Do not pull the fabric.</p>                   |
| Skipped stitches          | <ol style="list-style-type: none"> <li>1. The needle is not set correctly.</li> <li>2. The needle is bent or blunt.</li> <li>3. The tension is out of balance.</li> <li>4. The machine is not threaded correctly.</li> </ol>                                       | <p>See page 8.</p> <p>See page 8.</p> <p>See pages 15, 16.</p> <p>See pages 10-14.</p>                    |
| Seam puckering            | <ol style="list-style-type: none"> <li>1. The tension is out of balance.</li> </ol>                                                                                                                                                                                | <p>See pages 15, 16.</p>                                                                                  |
| Machine does not operate. | <ol style="list-style-type: none"> <li>1. The machine is not connected to the power supply.</li> <li>2. The foot control is not plugged in firmly.</li> </ol>                                                                                                      | <p>See page 4.</p> <p>See page 4.</p>                                                                     |