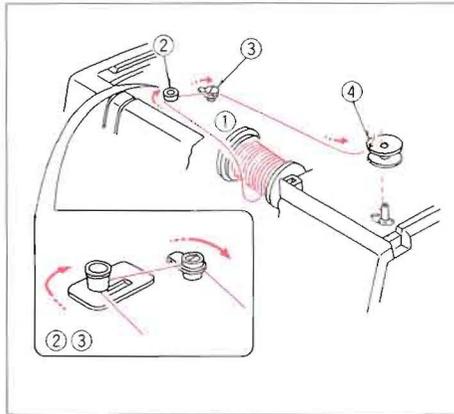
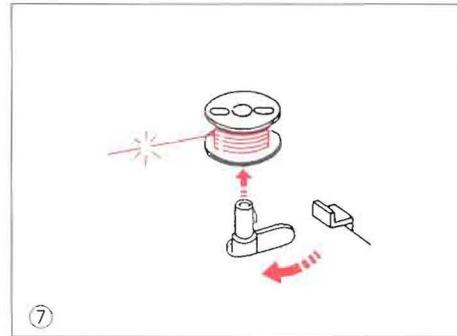
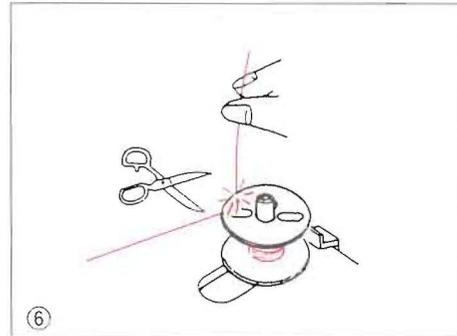
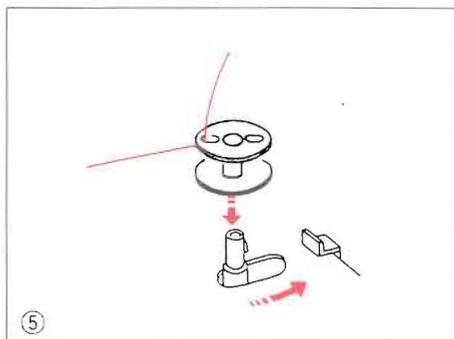


## WINDING THE BOBBIN (Models 3005 + 3007)

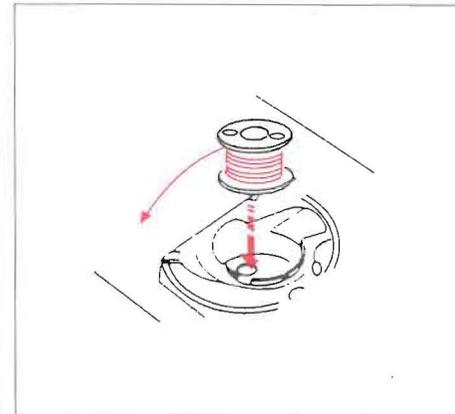


1. Draw the thread from the spool.
2. Engage the thread into the thread guide.
3. Guide the thread around the bobbin winder thread guide.
4. Pass the thread through the hole in the bobbin.
5. Place the bobbin on the bobbin winder and push it to the right.

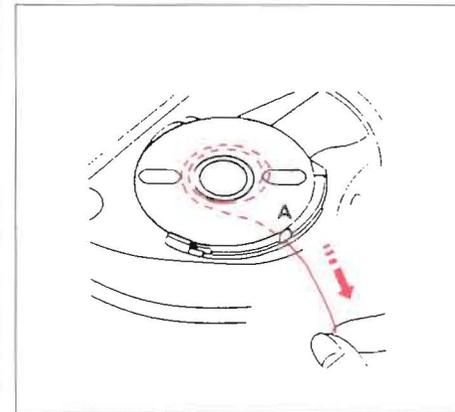


6. Hold the end of the thread and depress the foot control for a couple of turns. Cut the thread. Depress the foot control. The bobbin will stop automatically when it is full.
7. Push the bobbin winder back to the left, take off the bobbin and cut the thread.

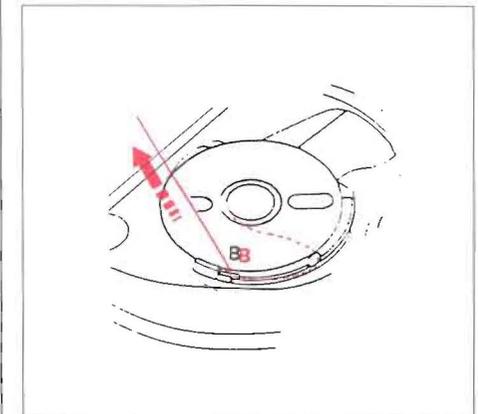
## INSERTING THE BOBBIN



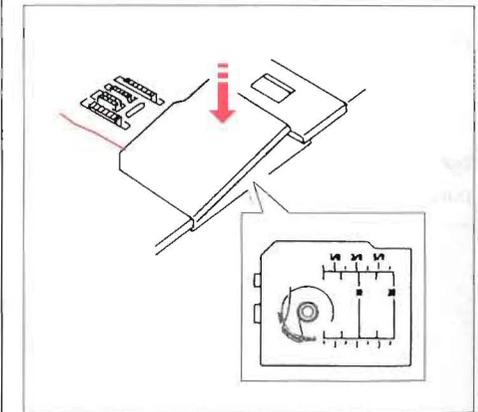
Place the bobbin in the bobbin case with the thread running counter-clockwise.



Guide the thread into the notch "A" on the front. Hold the bobbin with your right hand and pull the thread to the left and through the tension spring blades.

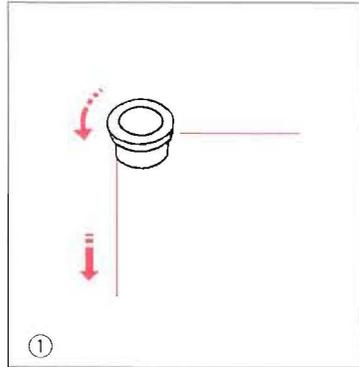
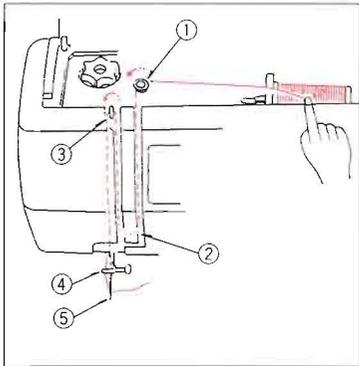
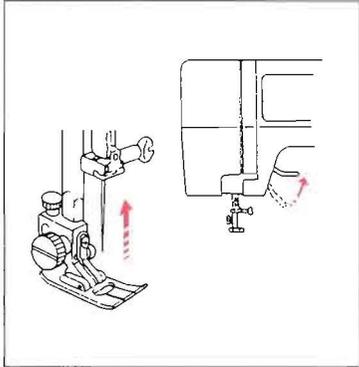


Keep slowly pulling the thread until it slides into the notch "B".



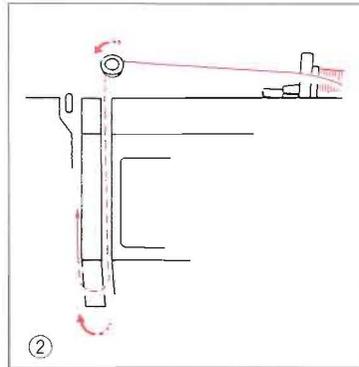
Pull out about 1.5 cm (6") of thread and refit the hook cover plate.

## THREADING THE MACHINE

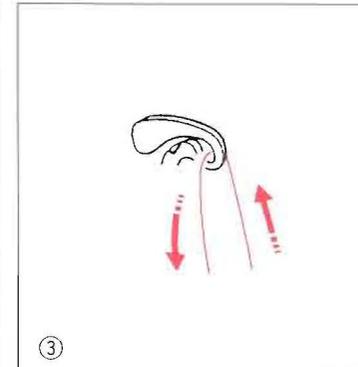


1. Pass the thread into the thread guide and draw it down along the right slot.

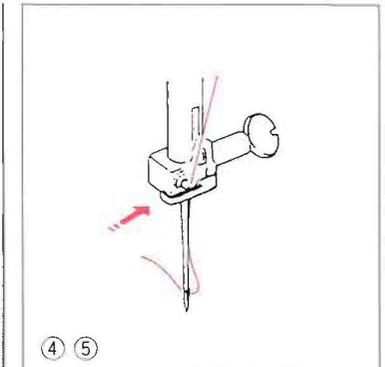
Raise the take-up lever to its highest position by turning the balance wheel towards you. Raise the presser foot, then pass the thread in the order from 1 to 5.



2. Pass the thread around the thread guide and up again in the left slot.



3. Firmly draw the thread from right to left into the take-up lever eyelet.



4. Slide the thread to the left behind the thread guide on the needle bar.

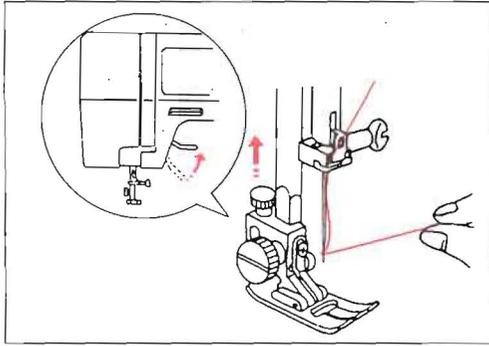
Model 3003:

5. Draw about 1.5 cm (6") of thread through needle eye.

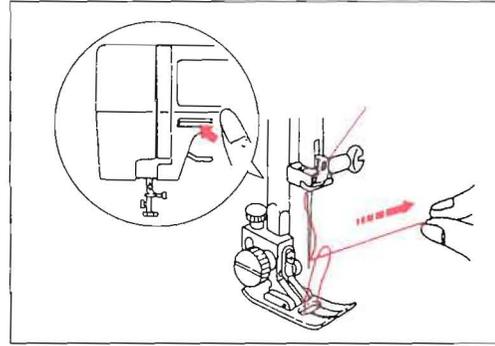
Models 3005 + 3007:

5. Thread the needle by using the needle threader (see page A-13).

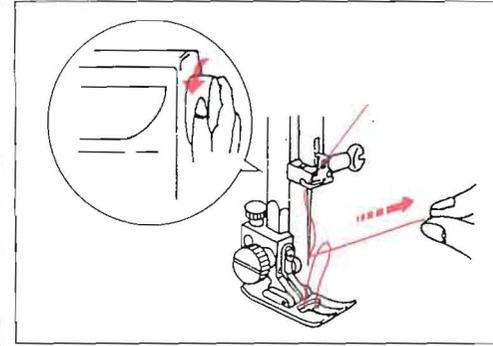
## DRAWING UP THE BOBBIN THREAD



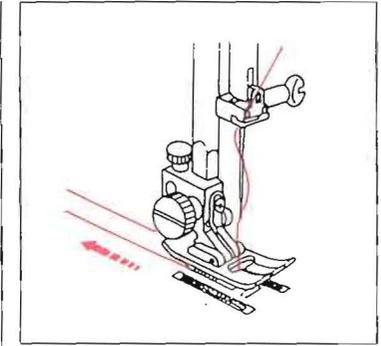
Raise the presser foot and hold the needle thread lightly with your left hand.



(3007): Press the up/down needle position key twice.

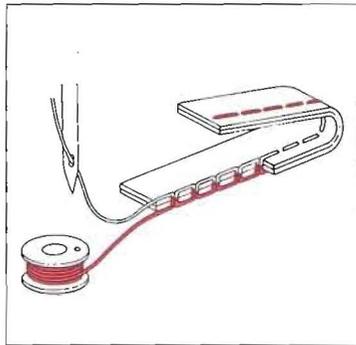


(3003 + 3005): Turn the balance wheel towards you until the needle has risen and the take-up lever is at its highest position. Lightly draw up the needle thread forming a loop of the bobbin thread.

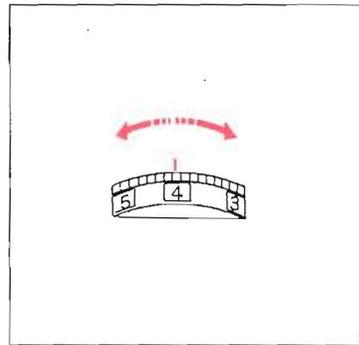


Pull both threads to the left and under the presser foot, leaving 10 cm (4").

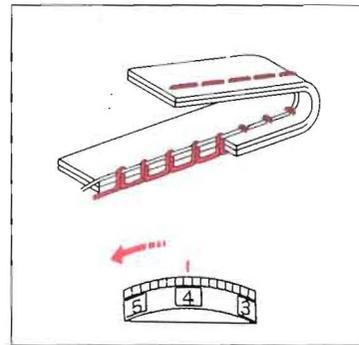
## BALANCING THE THREAD TENSION



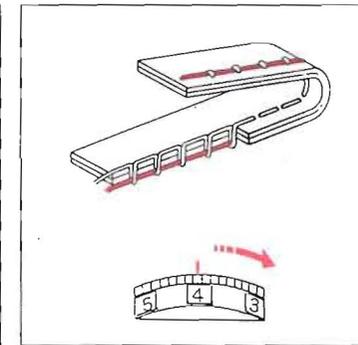
In straight seams, the needle thread and the bobbin thread should interlock in the center of the two layers of fabric.



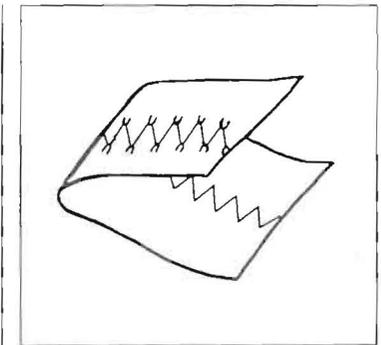
Turn the thread tension dial until the desired number is facing the setting mark.



Loosen the needle thread tension by moving the dial to a lower number.



Tighten the needle thread tension by turning the dial to a higher number.



**Adjusting the Thread Tension for Zigzag and Embroidery.**

The upper thread tension should be slightly weaker when sewing a zigzag or a pattern based on the satin stitch. The upper thread should appear slightly on the reverse side of the fabric.