HOW TO USE THE SEWING MACHINE

1, How to replace needle
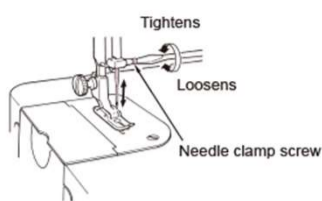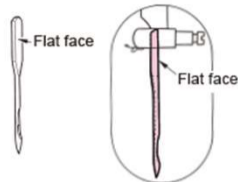

Tightens
Loosens
Needle clamp screw

Figure as observed from the front

Flat face
Flat face

■ Attaching the needle

1. Turn off power.
2. Lower the presser foot.
3. Move the needle bar up to the highest position of its stroke.
4. With the flat face of the new needle facing to the right, insert the new needle into the needle bar until it can go no further. Then tighten the needle clamp screw.
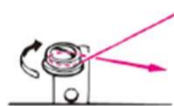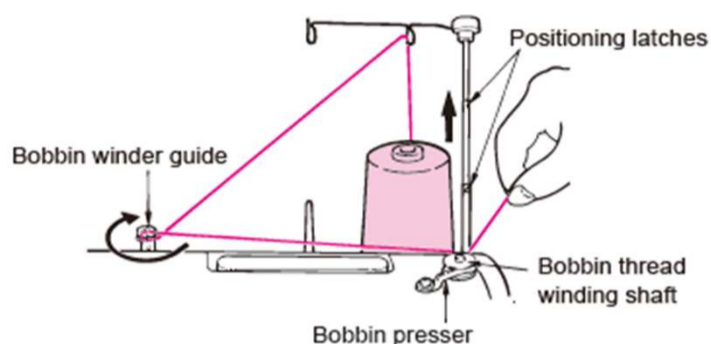
* The needle to be used is HAx1.
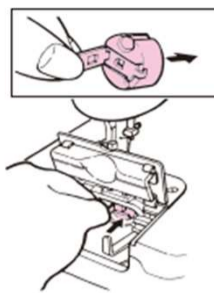
2, How to put the thread of the bottom thread

Positioning latches
Bobbin winder guide
Bobbin thread winding shaft
Bobbin presser

Thread the bobbin winder guide.

If the thread slips out of the bobbin winder guide, pass it through the hole located under the bobbin winder guide.

Concave portion
Convex portion
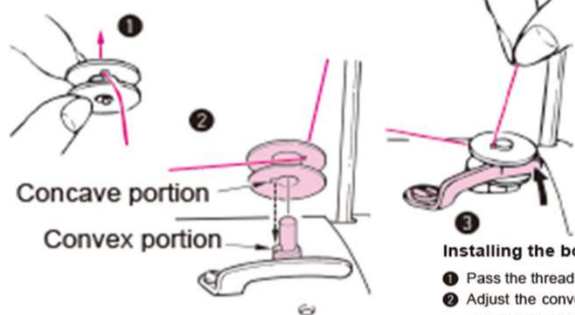
Installing the bobbin.

❶ Pass the thread through the hole of the bobbin.
❷ Adjust the convex portion of the bobbin thread winding shaft to the concave portion of the bobbin to set the bobbin.
❸ Press the bobbin presser.

Start winding the bobbin.

Upon completion of winding the bobbin.

Return the bobbin presser on your side. Trim the excessive thread and take out the bobbin.

Set the bobbin in the sewing machine. Close the slide plate.

Insert the bobbin case fully into the hook, and close the bobbin case latch.

Thread tension spring
Thread passage
10 cm
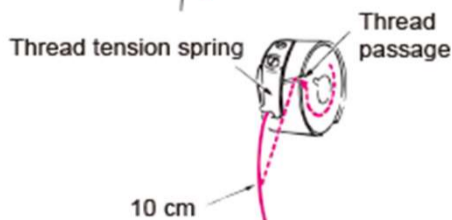
3, How to take bobbin thread tension

The standard bobbin thread tension is such that the bobbin case goes down slowly when you hold the open end of the bobbin thread and shake it as shown at right. (The count of the thread is #50.)
* Adjust the needle thread tension in accordance with the bobbin thread tension.
* The bobbin case is an exclusive JUKI part. Please consult the JUKI dealers when you purchase it.

· Adjusting the bobbin case

Tension adjusting screw
Increase
Decrease
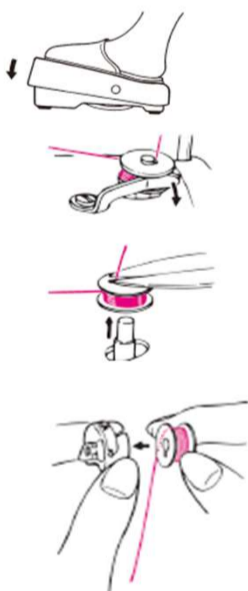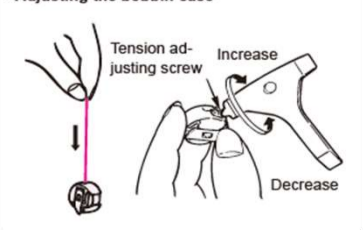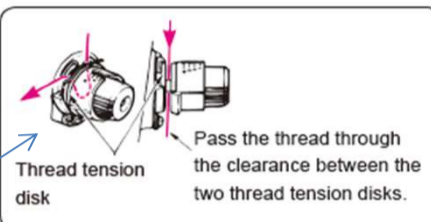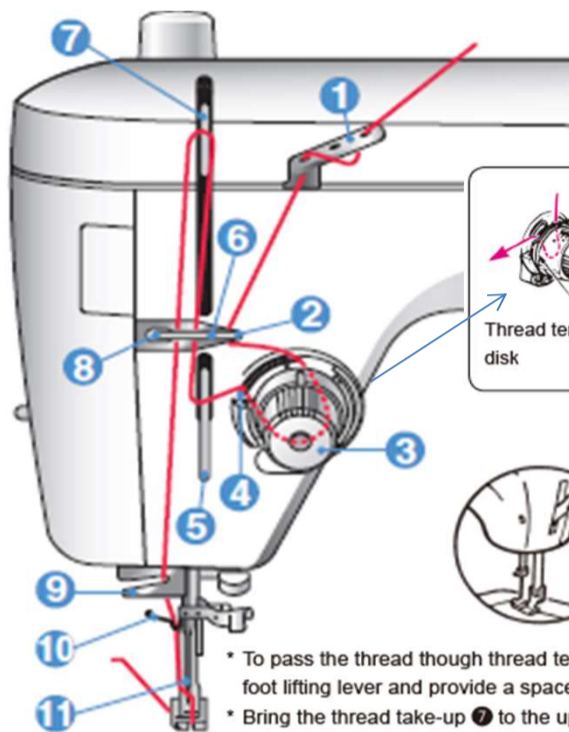

Set the bobbin in the sewing machine. Close the slide plate.

Insert the bobbin case fully into the hook, and close the bobbin case latch.

4, How to put the upper thread

Thread tension disk

Pass the thread through the clearance between the two thread tension disks.

* To pass the thread though thread tension dial ❸, firstly raise the presser foot lifting lever and provide a space between the tension disks.
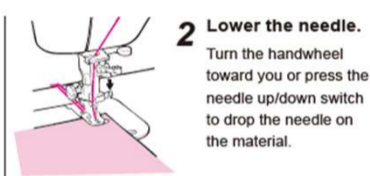* Bring the thread take-up ❼ to the upper end of its stroke. Then, pass the thread through it.
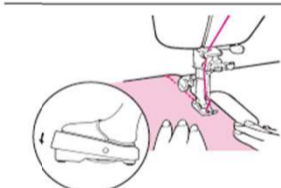
5, Chopstick stitch

If you start sewing while the thread take-up is engaged in its ascending motion, the needle thread may slip out of the needle's eye.
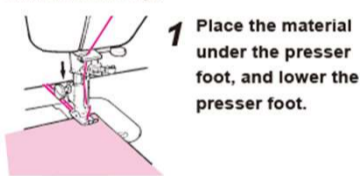
1 Place the material under the presser foot, and lower the presser foot.

2 Lower the needle.
Turn the handwheel toward you or press the needle up/down switch to drop the needle on the material.
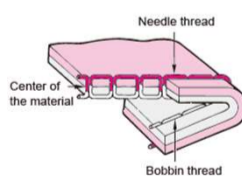
3 Start to run the sewing machine.
Do not pull the material by hand while it is being sewn.

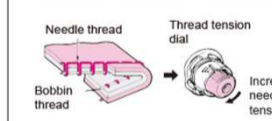**4** When the sewing is finished, stop the

6, Upper thread tension

■ Proper thread tension

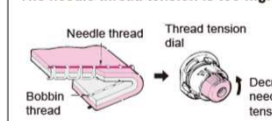Improperly adjusted thread tension may cause puckering on materials, inferior stitches, or thread breakage.

Needle thread
Center of the material

The needle thread tension is too low

Needle thread
Thread tension dial
Bobbin thread
Increase the needle thread tension.

The needle thread tension is too high

Needle thread
Thread tension dial
Bobbin thread
Decrease the needle thread tension.

7, Combination of fabrics, sewing threads, needles

■ Topstitching

With this sewing machine, you can make beautiful topstitches with stitch length up to 6 mm.
You can use various threads ranging from the standard runstitching thread to #8 topstitching thread. Change the needle according to the thread used (see the table at right).

Count of thread	Needle Size
#80-50	No.11
#60-50	No.14(11)
#50-30	No.16
#20-8	No.18

■ Tabulated relationship between material, thread and needle

	Material	Thread	Needle (HAx1)
Light-weight materials	Nylon Cupro Georgette	Synthetic thread #80-#90	No.9-11
	Smooth Tricot		
Medium-weight materials	Broadcloth Gingham	Cotton thread #60-#80 Synthetic thread #80-#90	No.11-14
	Light-weight jersey Synthetic cloth	Synthetic thread #50-#60	
	Flannel	Synthetic thread #50-#60	
	Wool	Silk yarn #50	
Heavy-weight materials	Denim	Synthetic thread #20-#50 Cotton thread #20-#50	No.14-18
	Canvas	Synthetic thread #30-#50	
	Tweed	Synthetic thread #50 Silk yarn #50	
	Artificial leather	Synthetic thread #20-#30	