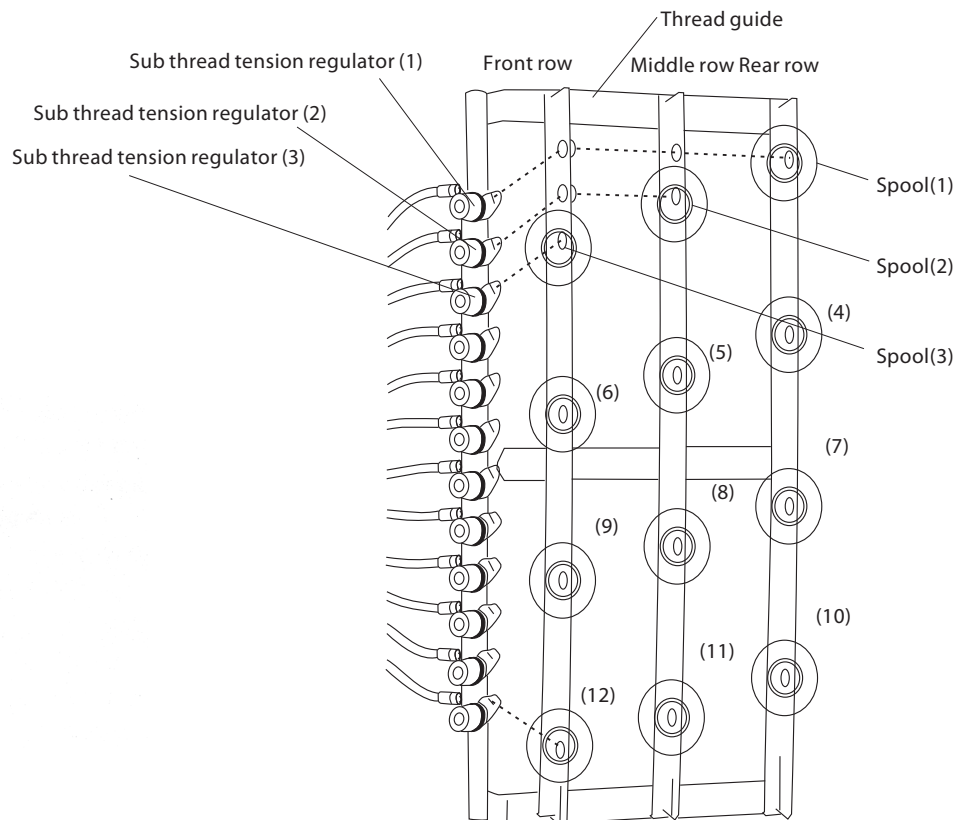
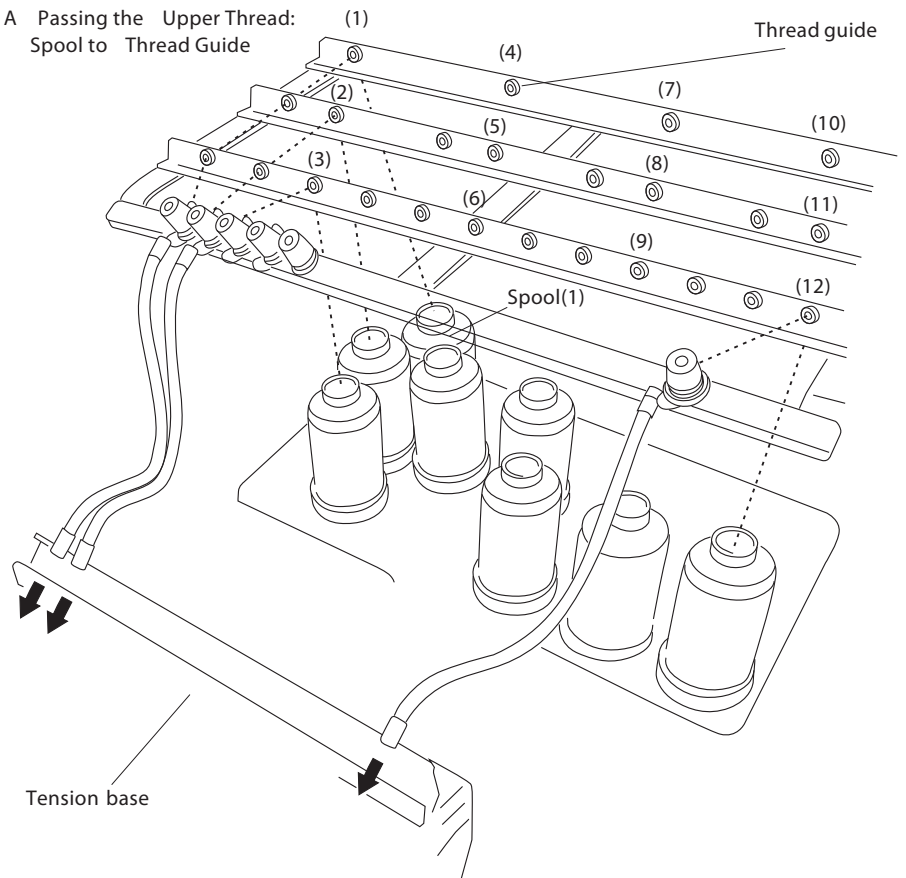


SETTING THE UPPER THREAD

Upper Thread Setting Procedure

1. Pass the thread from the spool (1) through the hole on the thread guide (1) just above the spool (1) and further pass it through thread guides at the middle and front rows.
2. Pass next the thread through the sub thread tension regulator (1).
3. For spools (4), (7), (10) and (12), set the thread in the same manner up to the sub thread tension regulators of the same number.
4. Pass the thread from the spool (2), at the middle row, through the hole on the thread guide (2) just above the spool (2) and further pass it through the thread guide at the front row.
5. Pass the thread through the sub thread tension regulator (2).
6. For spools (3), (5), (9) and (12), set the thread in the same manner up to the sub thread tension regulators of the same number.
7. Pass the thread from the spool (3), at the front row, through the hole on the thread guide (3) just above the spool (3).
8. Pass next the thread directly through the sub thread tension regulator (3).
9. For spools (3), (6), (9) and (12), set the thread in the same manner up to the sub thread tension regulators of the same number.

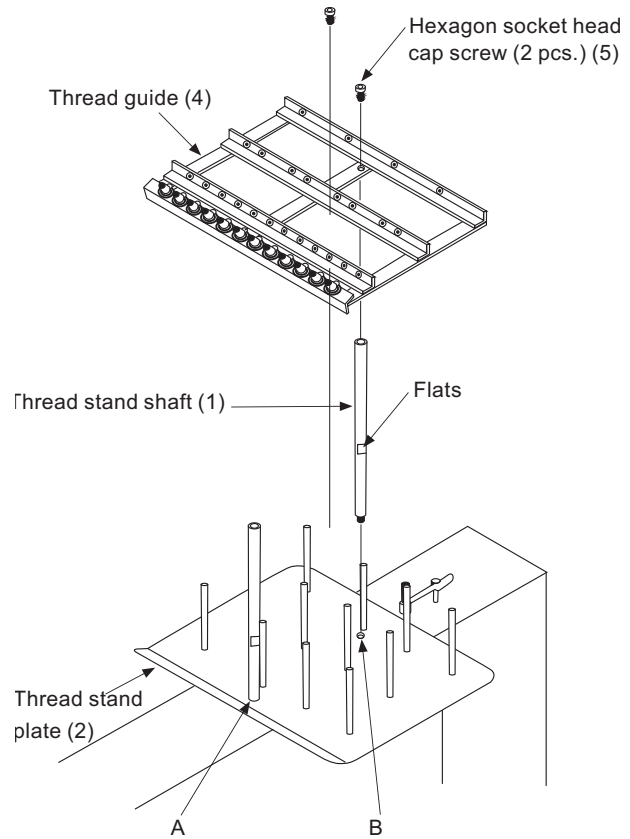
Fig. A Passing the Upper Thread: Spool to Thread Guide



ASSEMBLING

● Attaching the thread guide

1. Stand the thread stand shafts (1) (2 pcs. in total) on the thread stand plate (2) perpendicular to it by screwing in the shaft at positions A and B on the plate (2). Securely tighten the thread stand shafts (1) by the spanner set on the flats at the middle of the thread stand shaft (1) to fix them on the thread stand plate (2).
2. Place the thread guide (4) on top ends of two thread stand shafts (1), and align the two holes at the center of the thread guide (4) with the thread stand shafts (1). Insert then hexagon socket head cap screws (5) in the holes and securely tighten the screws to lock the guide and the shafts.



● Mounting the spiral tubes

1. Place the joint on the one end of spiral tube (large) in the U-shaped slot on the thread guide and fix it in the slot by pressing in the arrow direction. Set and fix the joint on the other end of spiral tube in the U-shaped slot on the tension base in the same way. Repeat the same steps on the U-shaped slots as numbered (1) to (3) and (10) to (12) in the figure shown at right.

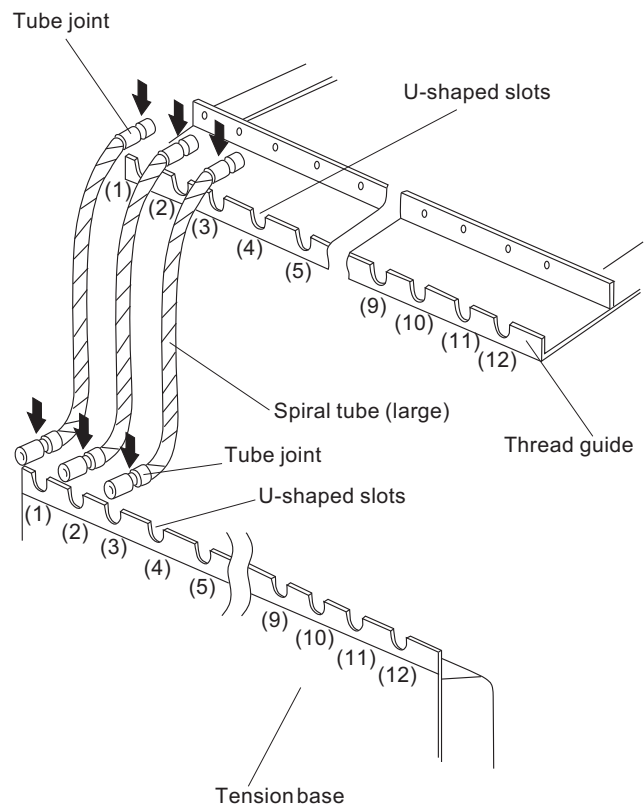
Spiral tube (large): No. 1 to No. 3/
No. 10 to No. 12

2. In the similar manner, fit the spiral tube B (medium) into the U-shaped slots.

Spiral tube (medium): No. 4, No. 5,
No. 11 and No. 12

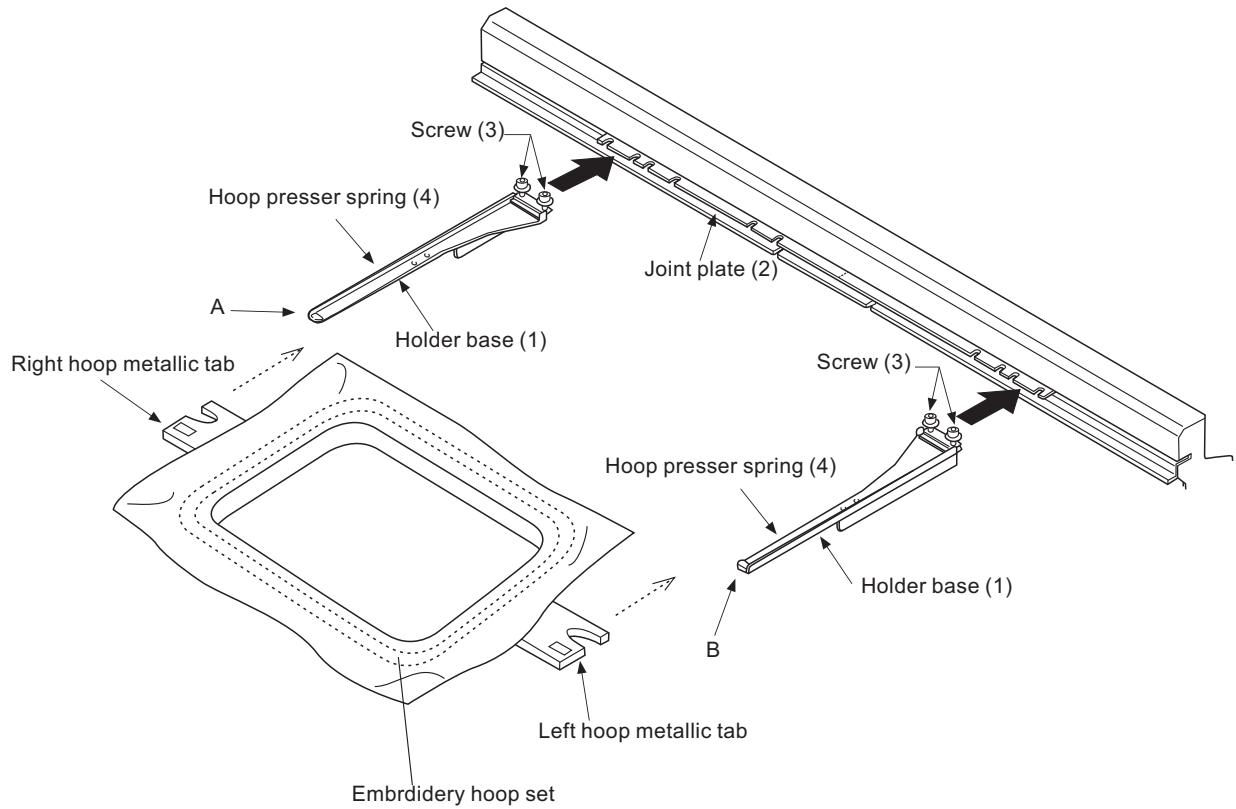
3. In the similar manner, fit the spiral tube (small) into the U-shaped slots.

Spiral tube (small): No. 6 to No. 10



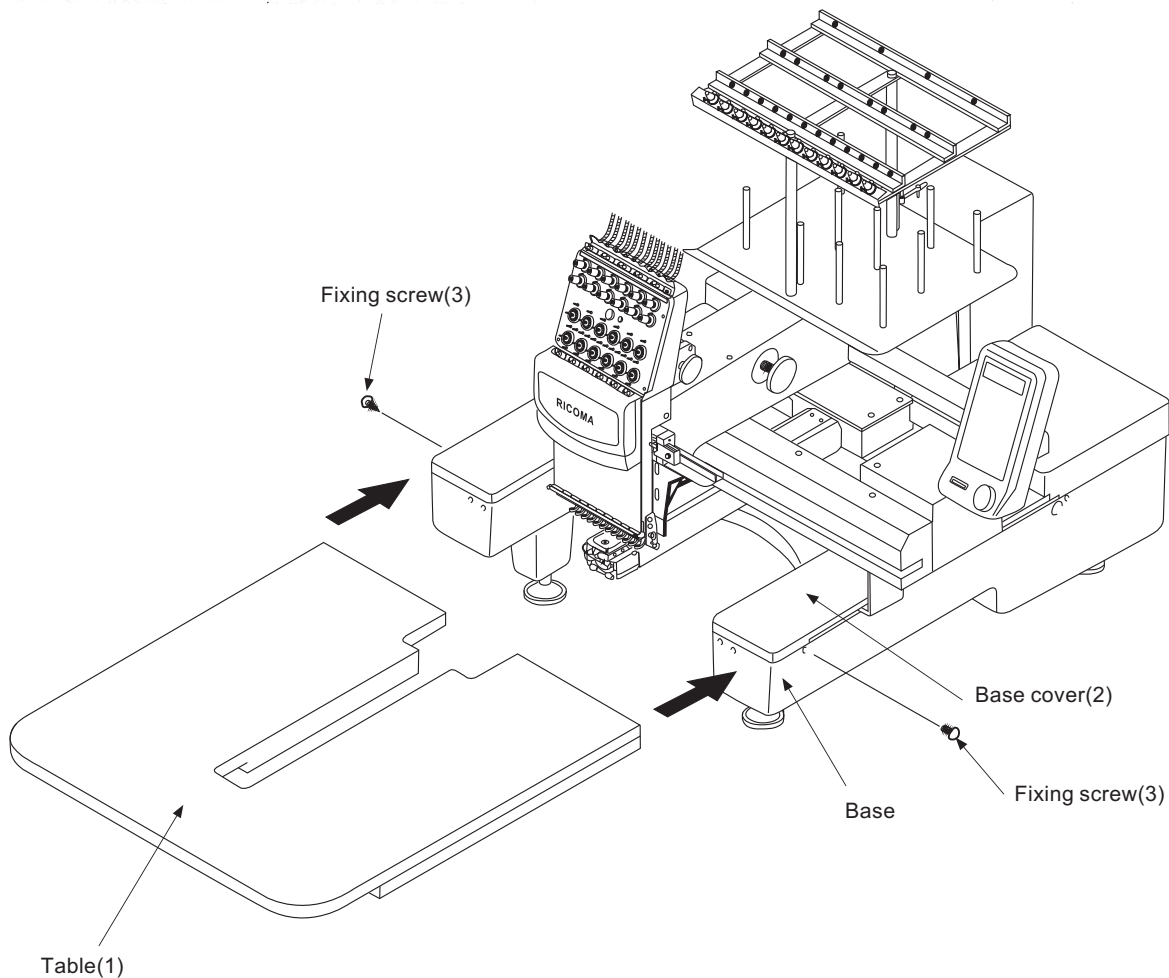
SETTING THE HOOP TO THE EMBROIDERY MACHINE

1. Attach two holder bases (1) to the joint plate (2) in the direction indicated by **➡** symbol and secure them in place with screws (3).
Determine the holder base (1) attaching position meeting the size of the hoop.
2. Insert the right and left metallic tabs of the embroidery hoop set in the sections A and B in the direction of dashed line arrows **- ➡** and fix the tabs by engaging the hoop presser springs (4) of the holder bases (1) in the tabs.



ATTACHING THE TABLE

1. Push in the table (1) till it hits the bottom with care to maintain equally at both right and left of top of the base cover (2) on the embroidery machine.
2. Tighten the right and left fixing screws (3). This completes the attaching of the table.

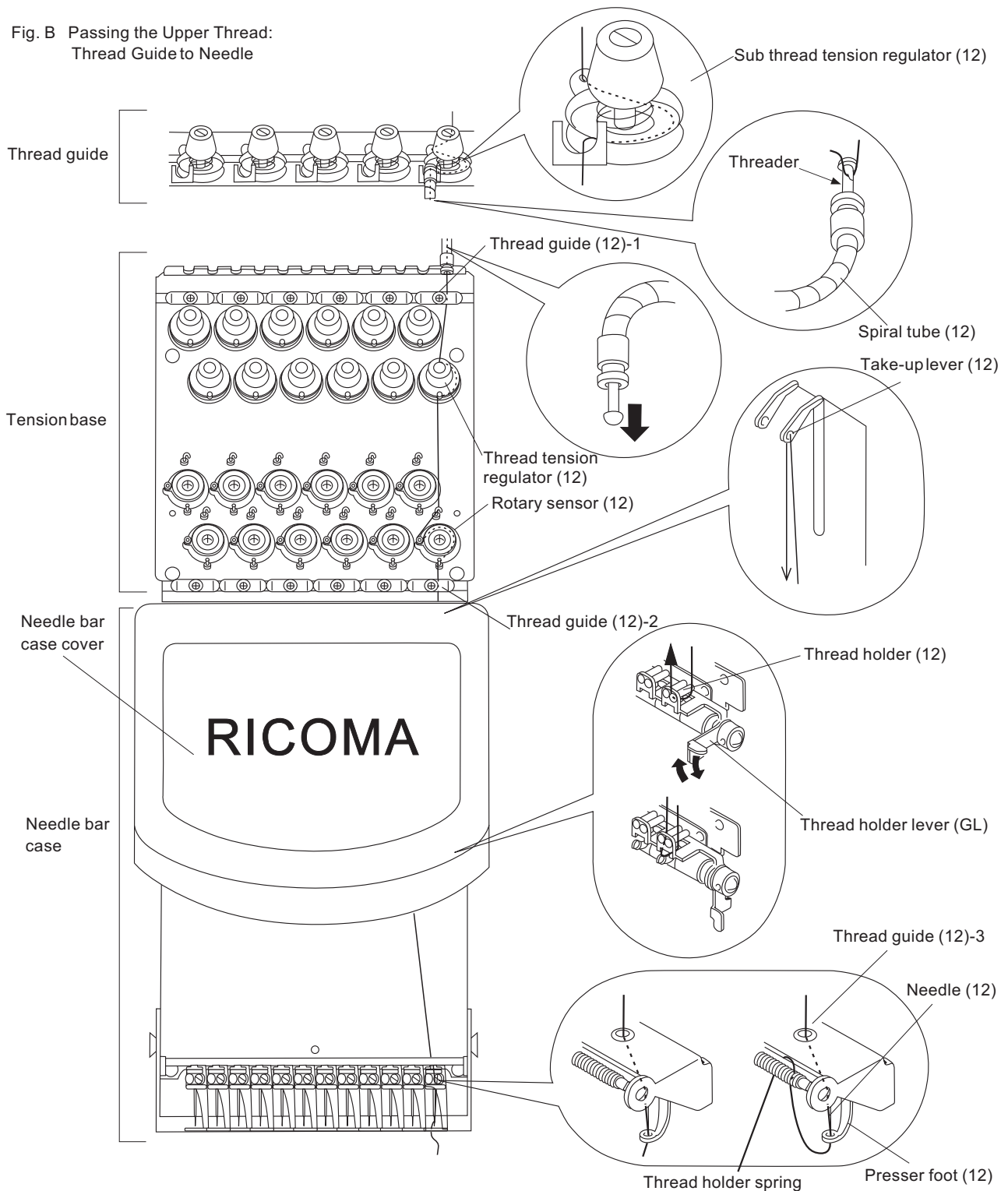


DIP SWITCH SETTING

Set DSW1-2 at ON to change the LCD indicator on the operation panel box to the display in Japanese.

10. Run the thread from the sub thread tension regulator (12) through the spiral tube (12).
11. Run the thread further through the thread guide (12)-1, thread tension regulator (12) rotary sensor (12) and thread guide (12)-2.
12. Open next the needle bar case cover.
13. Raise the thread holder lever (GL), hook the upper thread on the thread holder (12) from right to bottom and pass the thread through the hole of take-up lever (12) at the top.
14. After that, run the thread down and through the thread guide (12)-3, then through the hole of the needle (12) and finally through the hole in the presser foot (12).
15. Hook next the thread end on the thread holding spring.
16. Set the thread of spools (11) to (1) in the same manner. Finally, push down the thread holder lever (GL) down to finish the setting of upper thread.

Fig. B Passing the Upper Thread:
Thread Guide to Needle



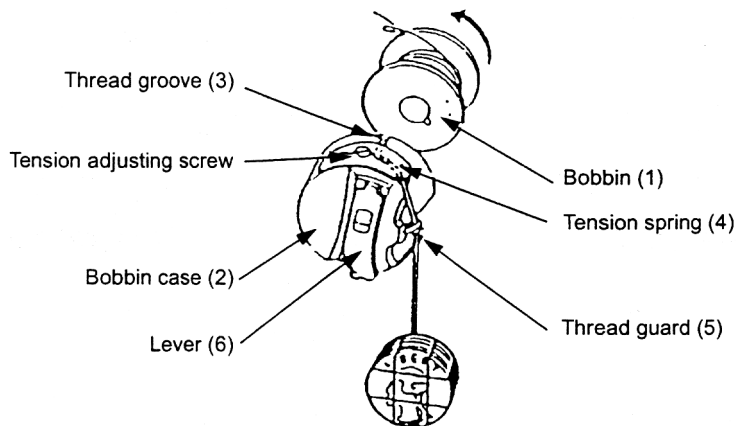
SETTING THE UNDER THREAD

1. Orient the bobbin (1) with its thread facing in the direction, specified by the arrow symbol, and put it in the bobbin case (2).
2. Route the thread through the thread groove (3) in the bobbin case, under the thread tension spring (4) and the thread guard (5).
3. Raise the "lever" (6) on the bobbin case and then install it in the rotary hook.


NOTE: The standard under thread tension is 25 to 30 g (0.25 to 0.3 N) for the carbonized yarn #120.

The thread tension can be adjusted with the tension adjusting screw of the bobbin case. Turning the screw clockwise tightens the thread and turning it counterclockwise loosens the thread tension.

For adjustment, suspend three 25-cent coins from the bobbin case by taping them to the thread as shown in the illustration below. If thread is pulled out slightly when the bobbin case is gently shaken up and down, the thread tension is between 25 and 30 g (0.25 and 0.3 N).

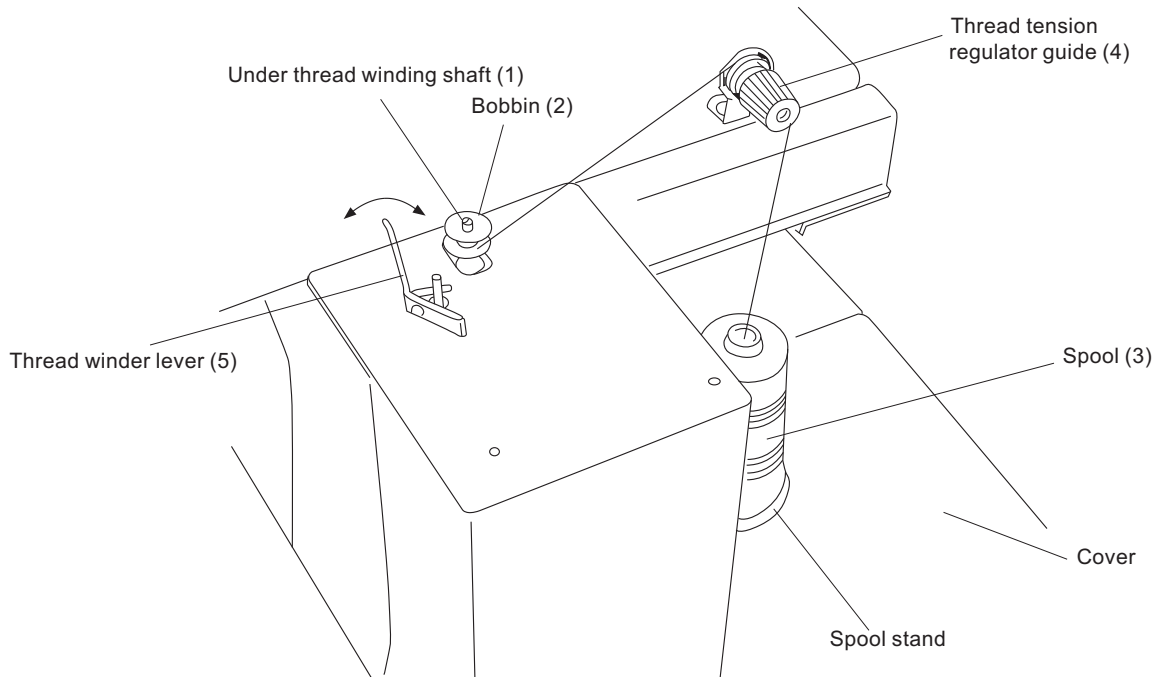


CAUTION

-  Before setting or removing the bobbin, be sure to turn OFF the power switch. Otherwise, the embroidery machine may start causing injury of operators.

WINDING THE UNDER THREAD

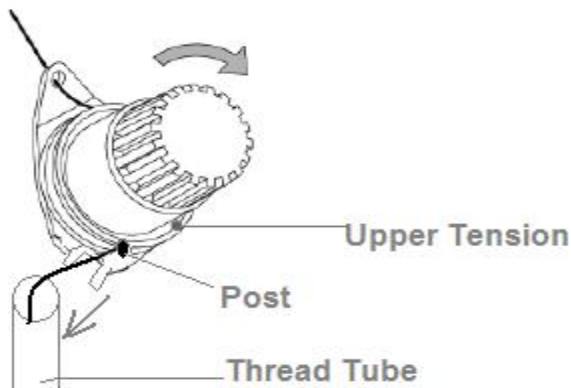
1. Set a bobbin (2) on the under thread winding shaft (1).
2. Place the spool (3) on the spool stand on the cover, pass the thread end through the thread tension regulator guide (4) and wind the thread round the bobbin (2).
3. Press the thread winder lever (5) to the right so that it touches the inner face of the bobbin (2).
4. Thread is wound on the bobbin as the machine operates and the lever automatically returns back (turning to the left) when a certain amount of thread is wound on the bobbin to stop winding of the under thread.



Under thread may be used up during embroidery. In this case, set the under thread in the same manner as explained above.

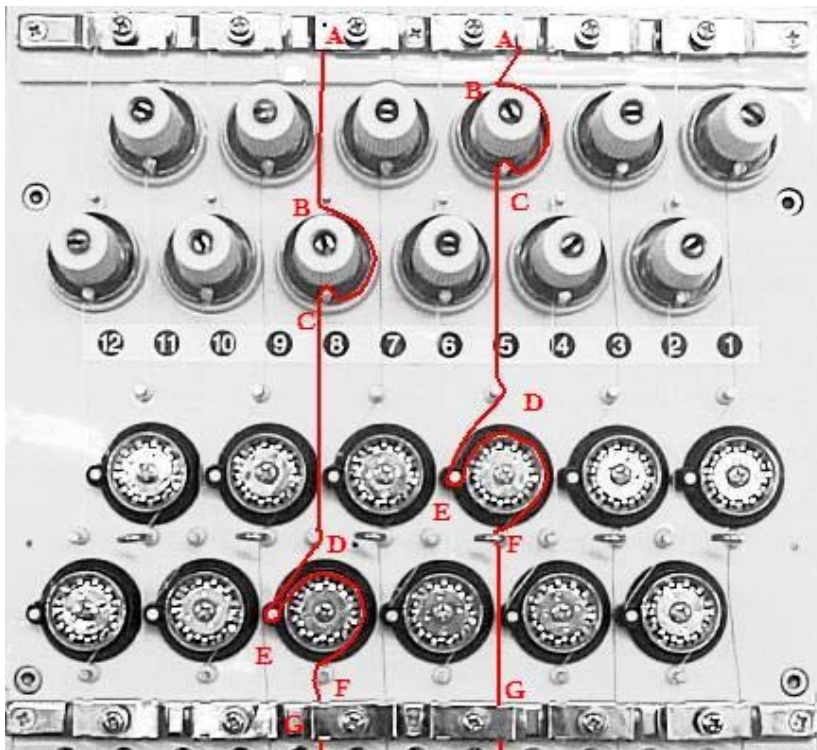
Threading your new machine

Pull the thread off the cone to the eyelet directly above the cone! Do not cross over another thread. Pass the thread through each eyelet necessary until you come to the upper tension.



Pass the thread around the upper tension making sure to pull the thread tight inside the disk and over the post at the bottom.

Pull the thread tube loose from the tension. Using the threading inserts provided, pass the threader through the tube and wrap the thread into the cut on the threader and pull through. Replace the tube into the tension.



Showing two different needles #5 and #8.

Press on the opposite end of clip "A" to slide thread underneath.

Grab the post "B" with the thread and pull to the right around the tension disk and up and over the post "C". Pull tightly into the disk.

Come to the right side of post "D" to the left side of post "E" and back over the top of the roller wheel in a clockwise motion, finishing with a turn to the left side of post "F"

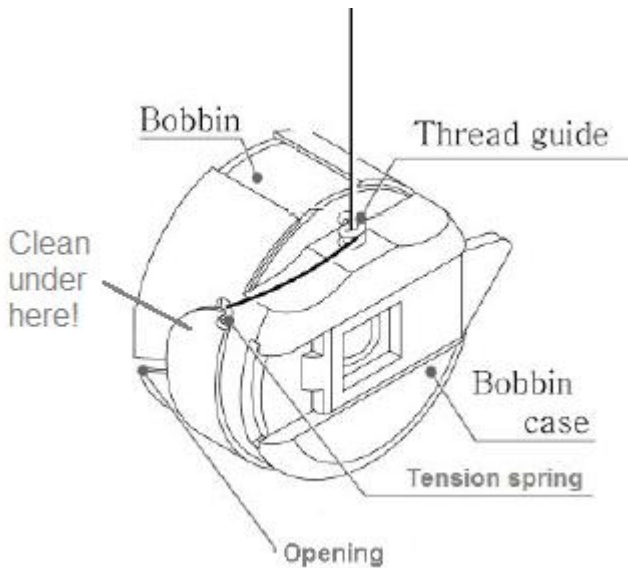
Another clip "G" same as top.

Replacing a Bobbin

1. Place a new bobbin in the bobbin case and pass the thread through the opening in the bobbin case, pull the thread under the tension spring.

2. Pull the thread through the thread guide, cut the thread leaving a 2 inch tail.

Insert the bobbin case into the hook; be sure it is locked in.

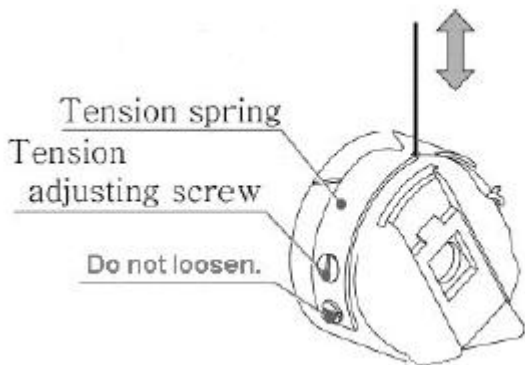


When viewed from behind, the bobbin should turn clock-wise.

Adjusting the lower thread tension

An adjusting screw adjusts the lower thread tension of the tension spring in the bobbin case.

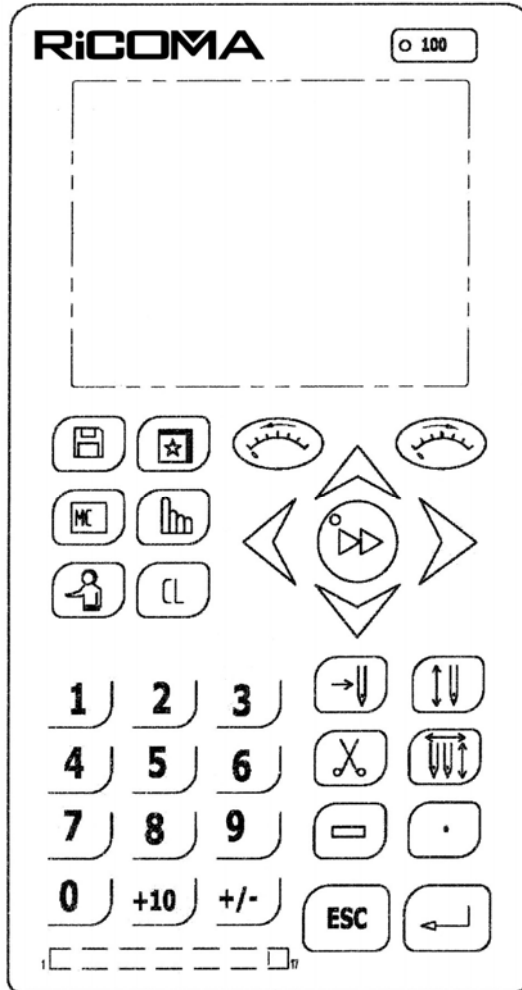
If the screw is turned clockwise, the lower thread tension will be higher and if it is turned counterclockwise, the lower thread tension will be lower.







The approximate tension is set when one can shake the bobbin case slightly, and the thread unwinds and the bobbin case falls approximately 1 to 3 inches before stopping.


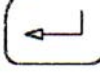
*Note- If using a bobbin case tension gauge the approximate setting should be between 25-35 grams.


Quick Start Menu




Set embroidery light must be off. To relieve embroidery, press  and then 



Press  to load a design from machine library or  to load a design from disk

To enter color sequence, press  then choose #9 from the menu and press 

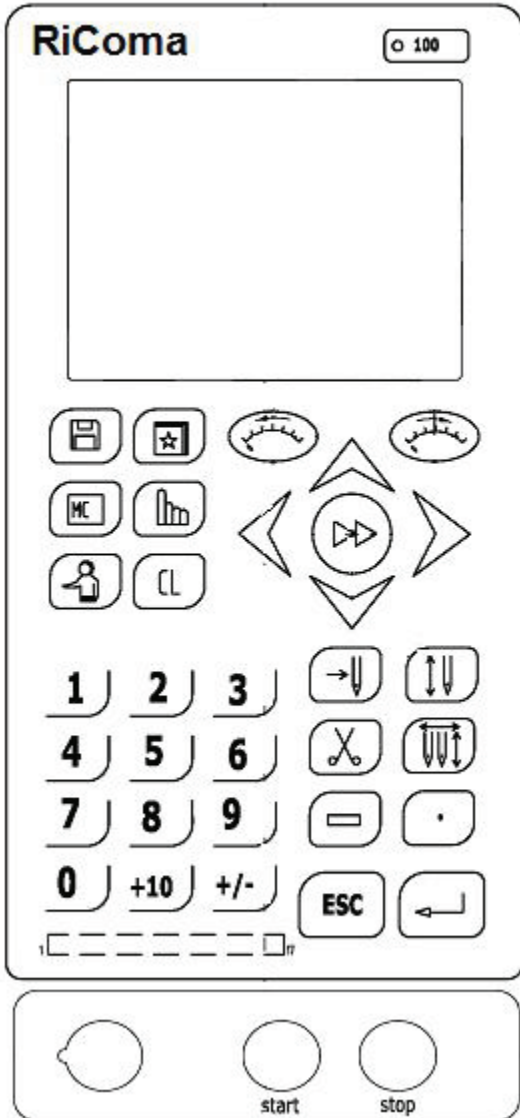
Press  and choose menu item #5. Push green start button to trace design

Set embroidery by pressing  and the red light should turn on




Push green start button to start sewing.

Use  and  to increase or decrease sewing speed. (Also Page up/down)


Loading a Design from Disk






To load a design :

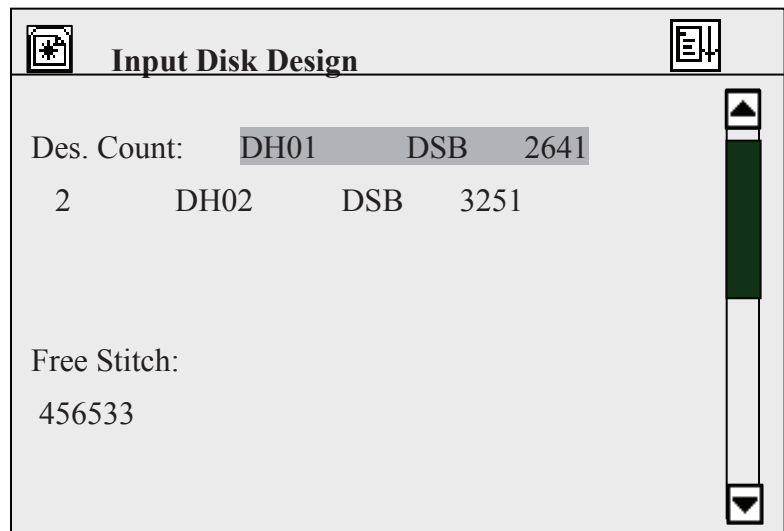
1. Push the  design key.
2. Scroll using  and  to Disk Input or press 3



3. Press the  enter key

The machine will read the disk
And display a directory.

4. Scroll using  and  to select your design from the directory
press 



This solution guide is ment to give you a quick reference to most common errors on the machines. If the error persists after performing the procedure, you may need to contact your technician for further assistance.