

# HOW TO OPERATE THE TECHSEW 1660 INDUSTRIAL SEWING MACHINE

**V1**

MARCH 18TH, 2025



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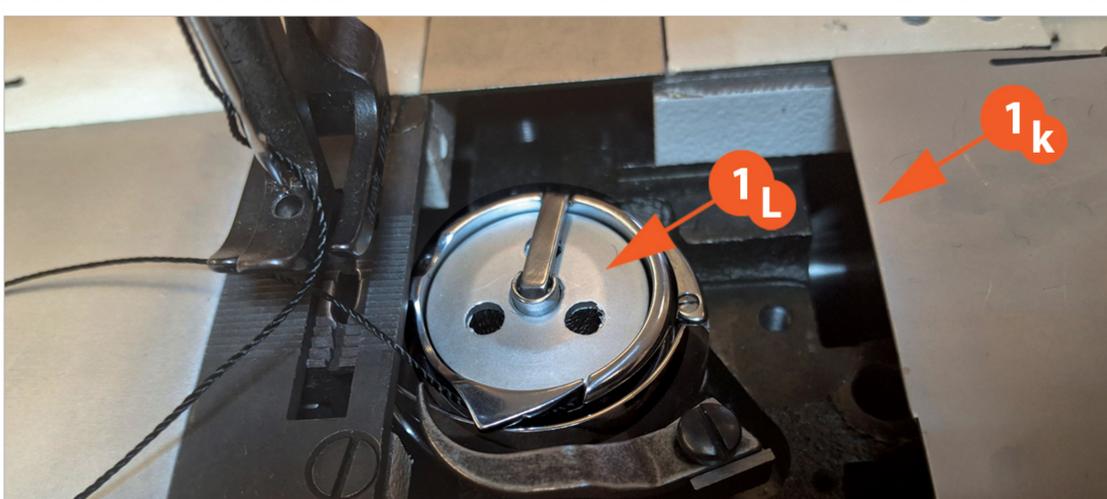
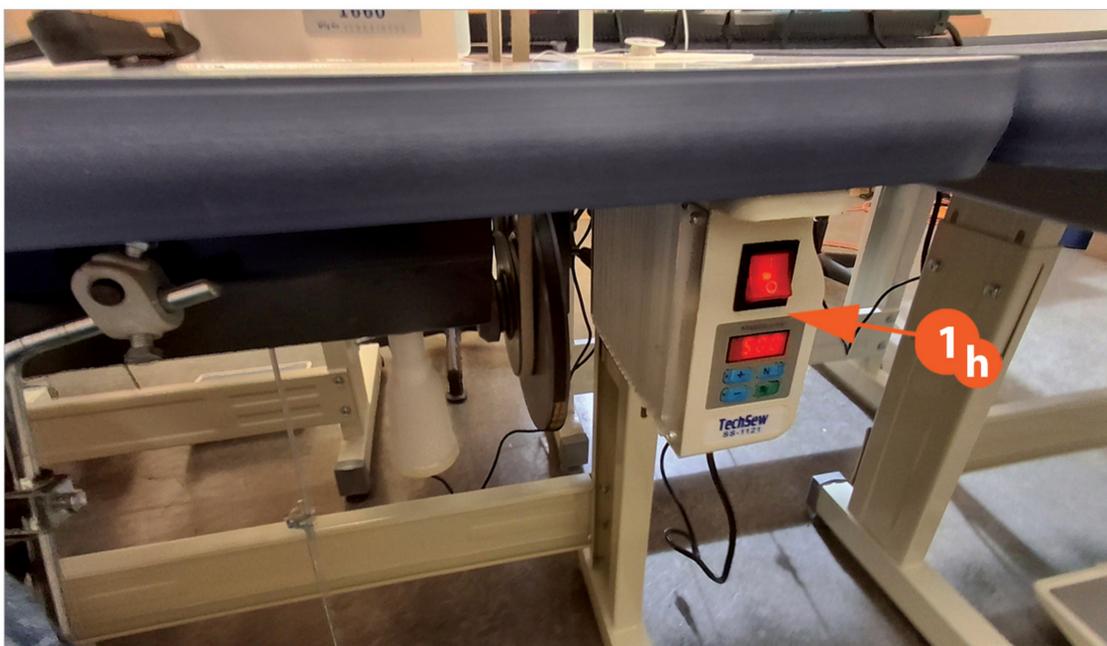
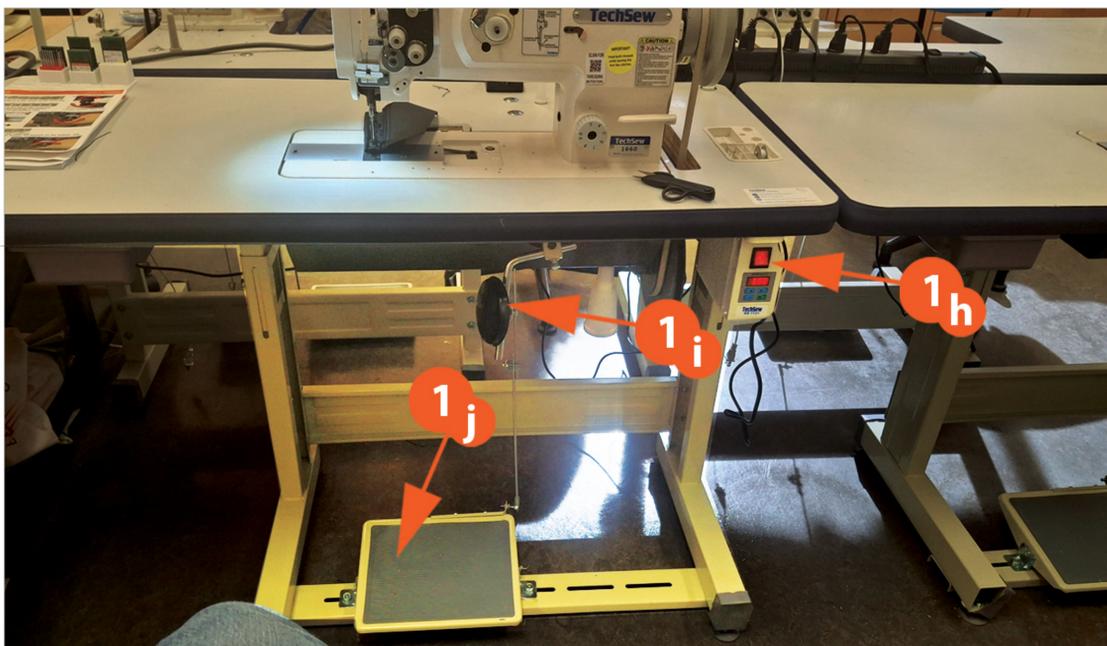
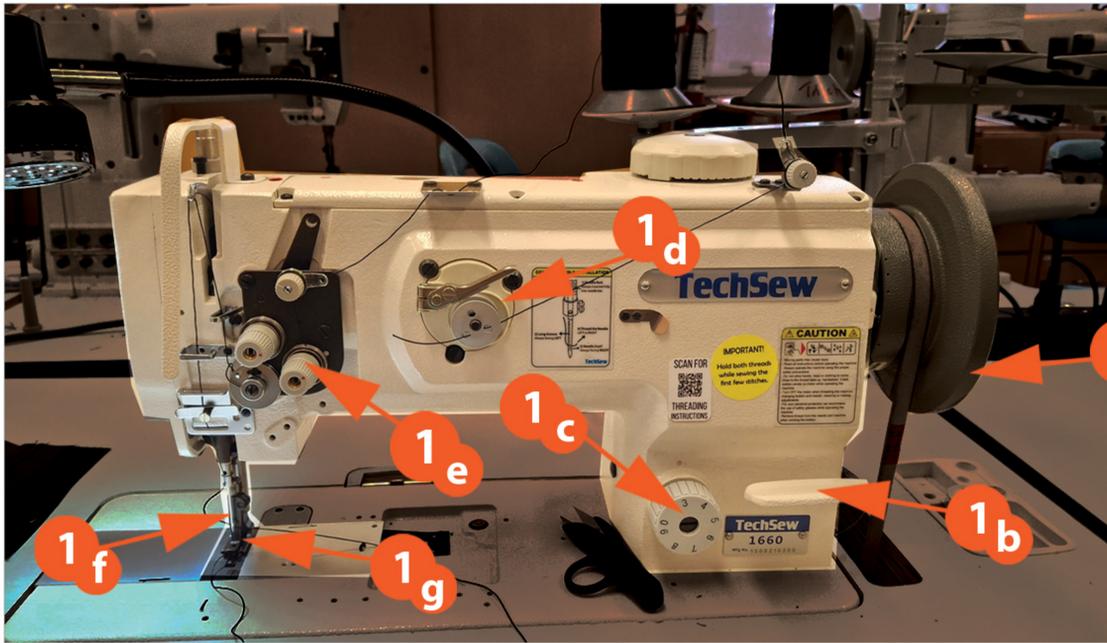
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# 1

## MAIN MACHINE PARTS FOR OPERATING

1a - Flywheel wheel.  
To manually rotate the needle up & down.

1b - Reverse Paddle.  
To reverse the stitch to lock it.

1c - Stitch length adjustment wheel.  
To change the length of each stitch.

1d - Bobbin winder.

1e - Thread Tensioners.  
To adjust the tension for stitch quality.

1f - Needle.

1g - Walking presser foot.

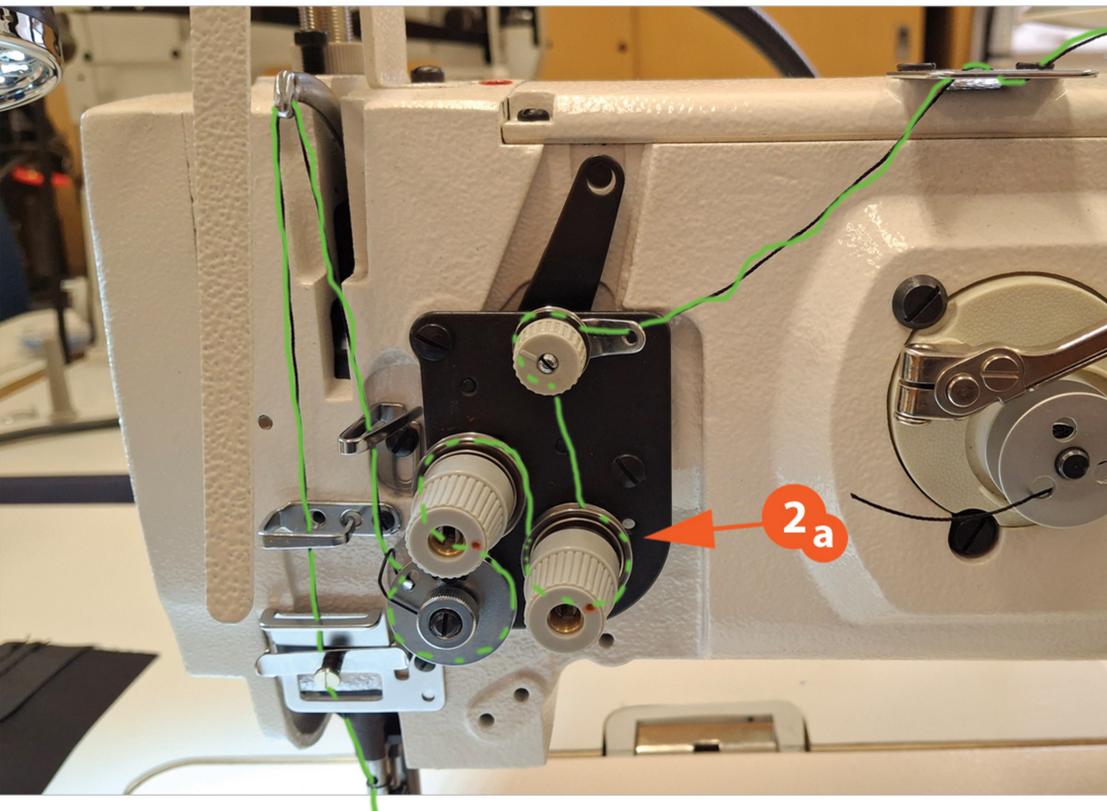
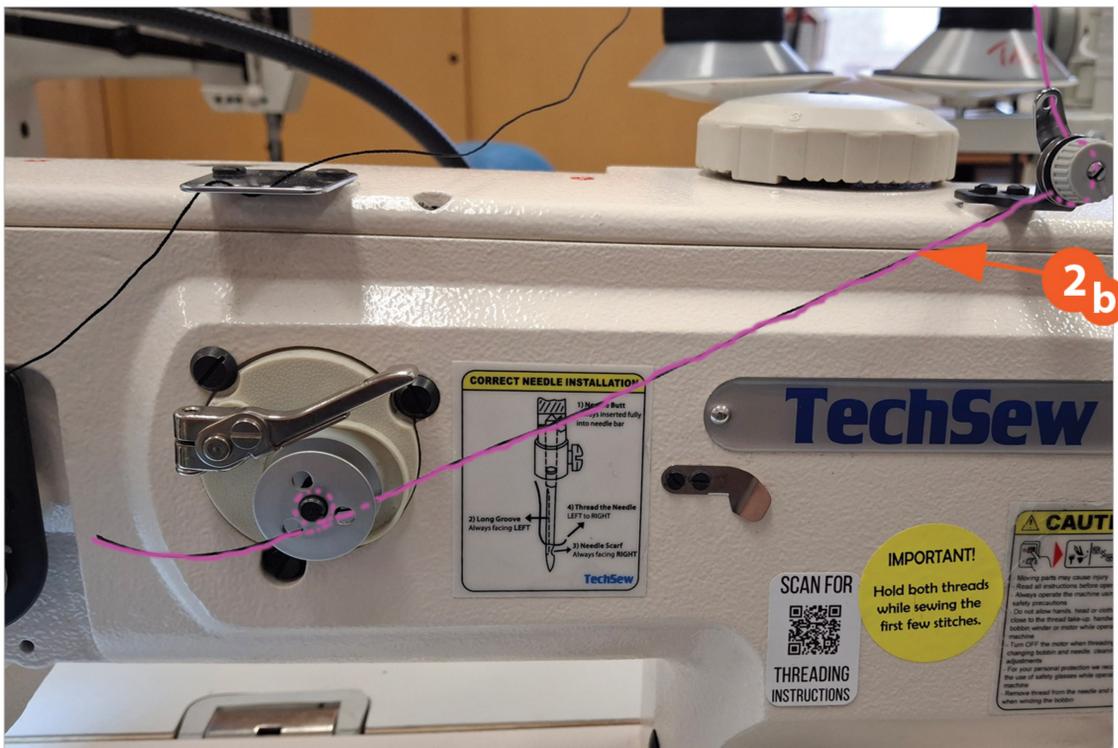
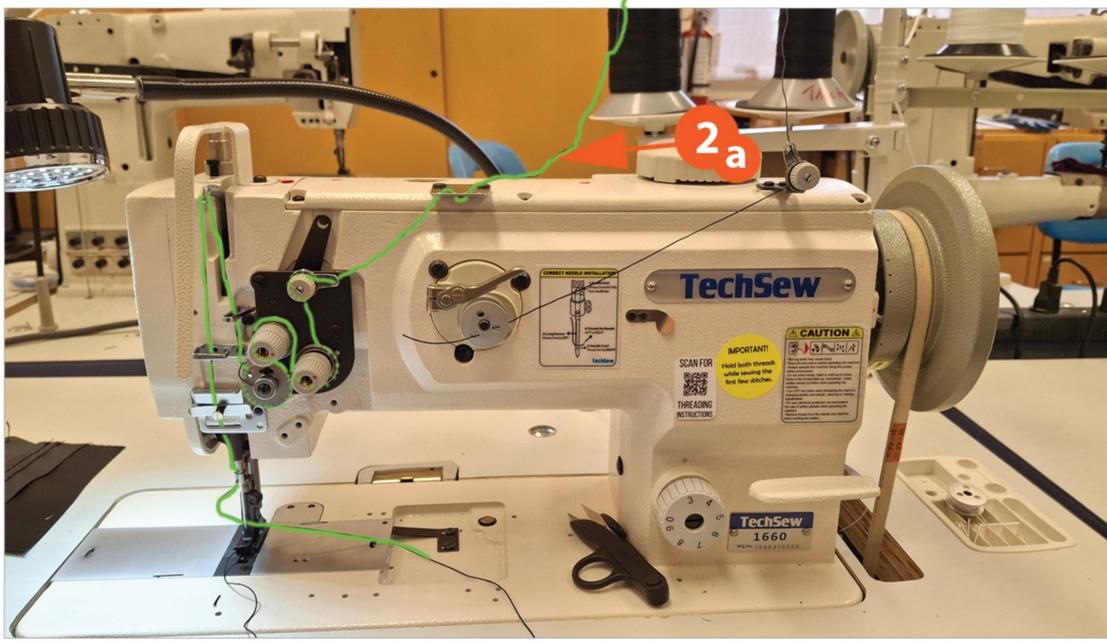
1h - Power & Speed Adjust.  
To control the speed range.

1i - Presser Foot Knee Lifter.  
To lift the walking foot up to insert your material.

1j - Foot Peddle.  
To start stitching and control the speed.

1k - Bobbin Cover.

1h - Bobbin.



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THREADING THE 1660

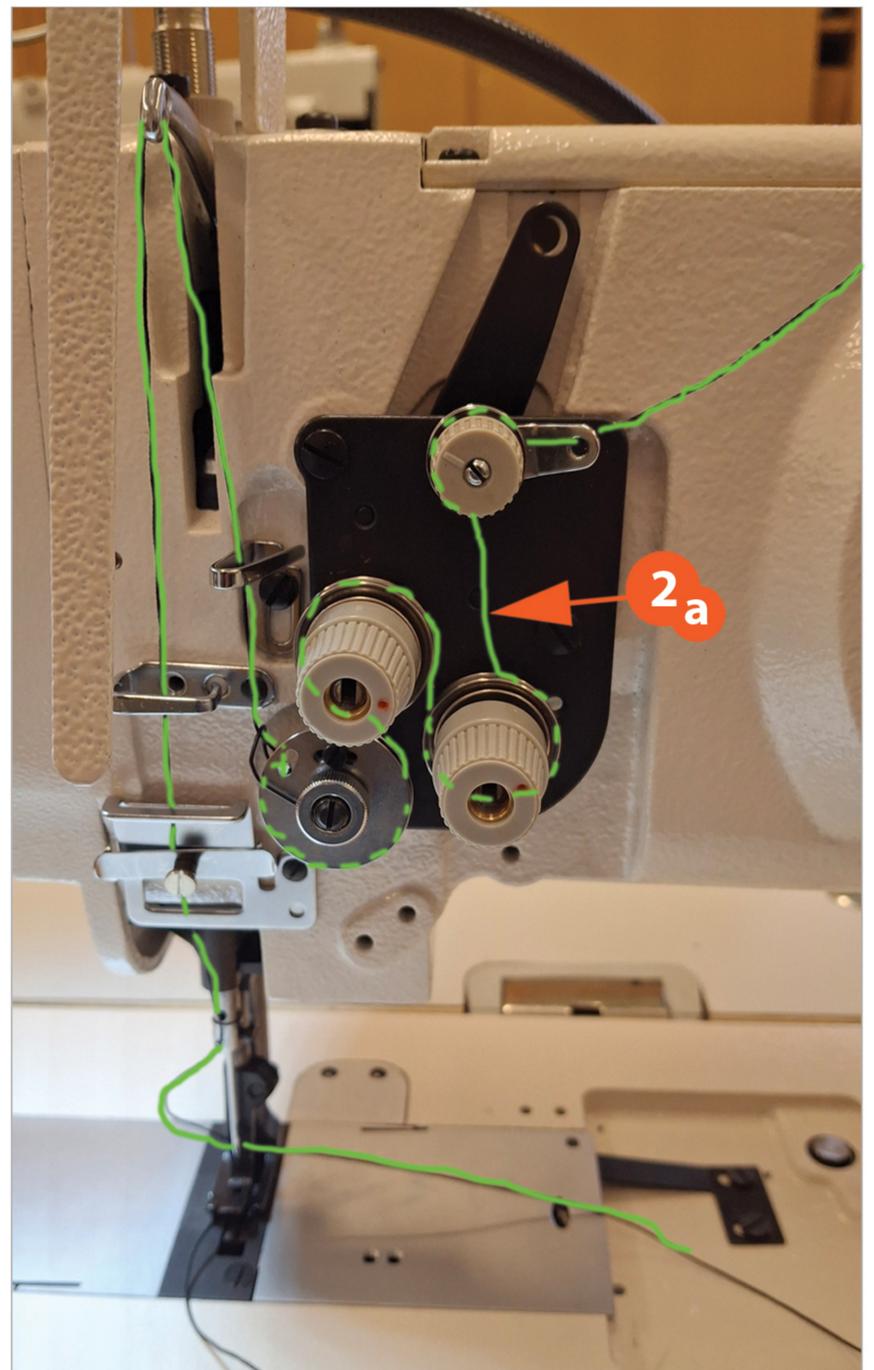
KEY:

-  = Main thread
-  = Hidden main thread
-  = Bobbin winder thread
-  = Hidden Bobbin winder thread

2a - From the left spool of thread, feed the thread through each guide and around the two tensioners as show here.

2b - To wind a bobbin, take the thread from the right spool, wind it around the tensioner.

2c - And then wrap around the bobbin a few times and through one of the holes as shown here.



3

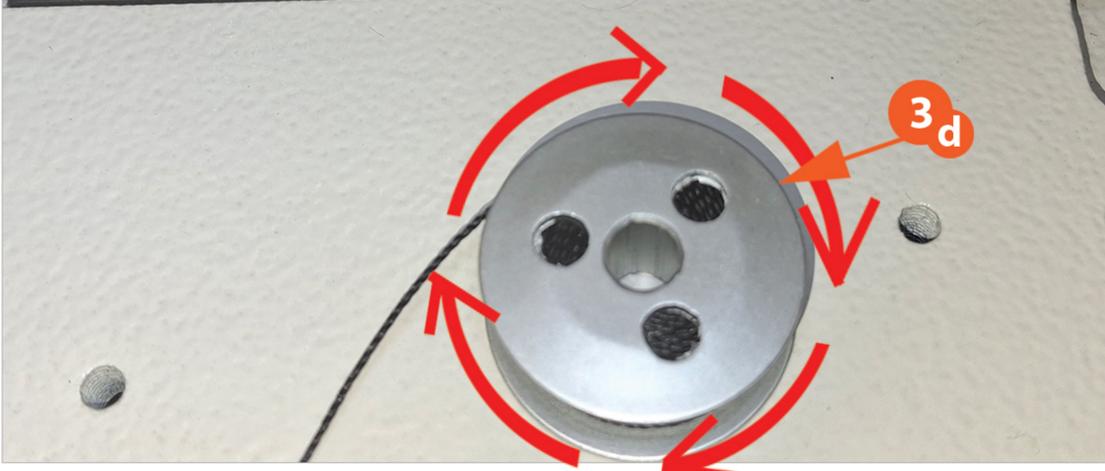
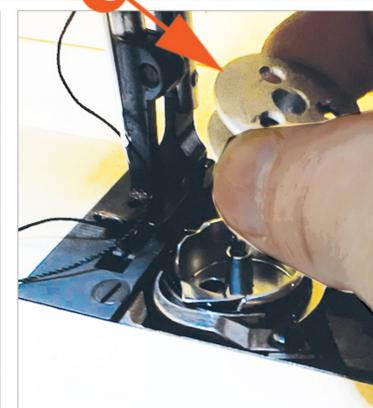
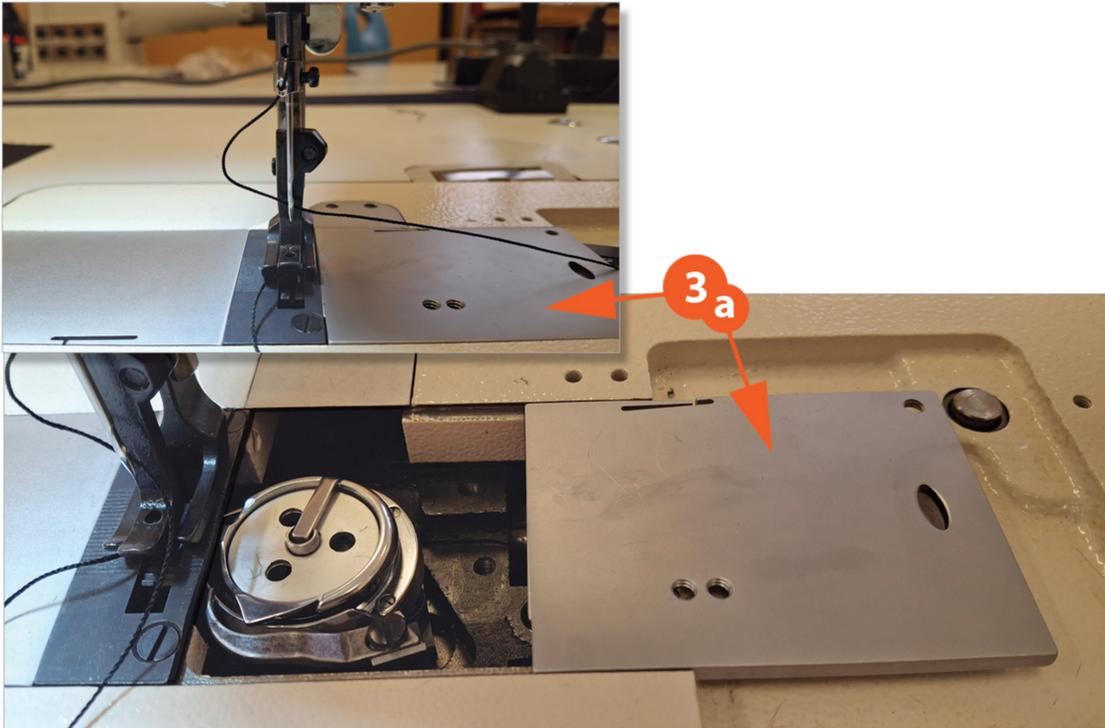
**BOBBIN FOR THE 1660**

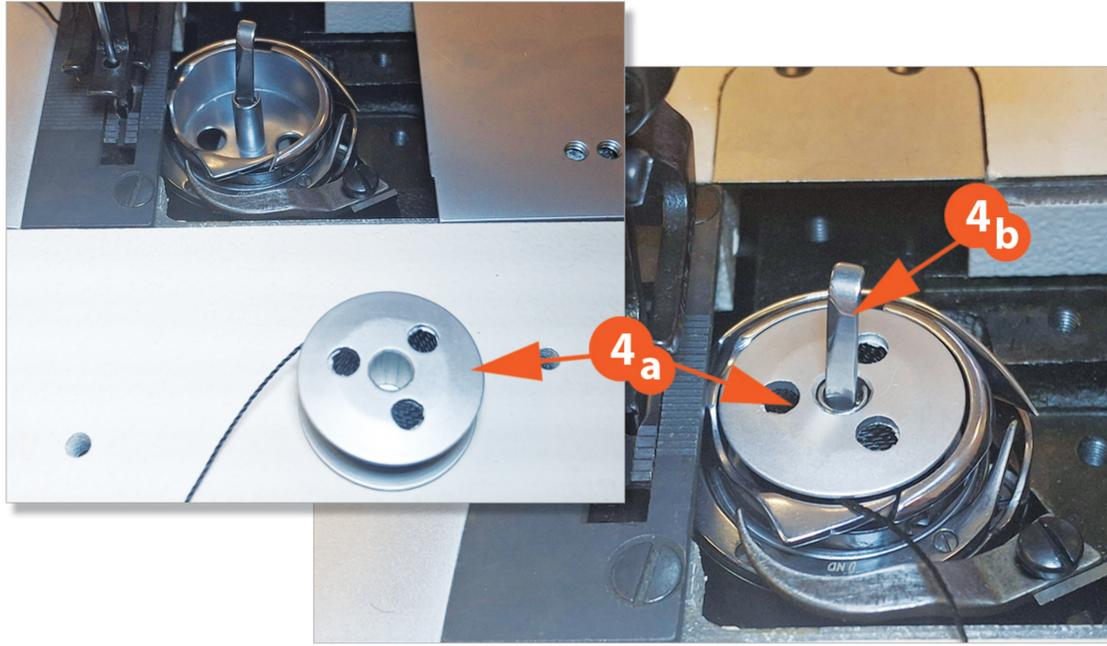
3a - Slide the bobbin cover plate to the right to open it.

3b - Using a small screwdriver or your finger, lift up the bobbin arm as shown.

3c - Remove the bobbin.

3d - Take a new bobbin, make sure it is in a clockwise rotation (the thread coming off of the left side).





**4**

4a - Place the bobbin into the bobbin case, making sure it is rotating clockwise.

4b - Close the Bobbin arm.

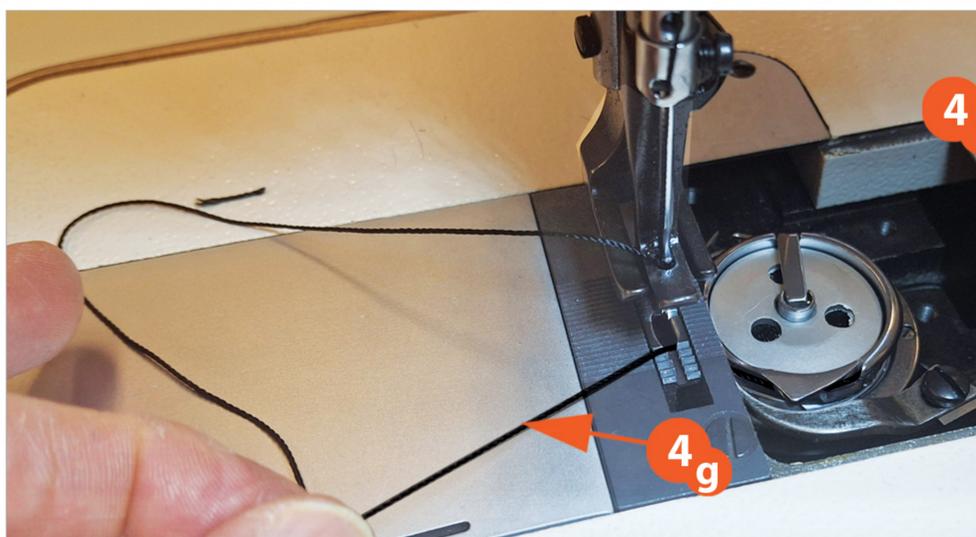
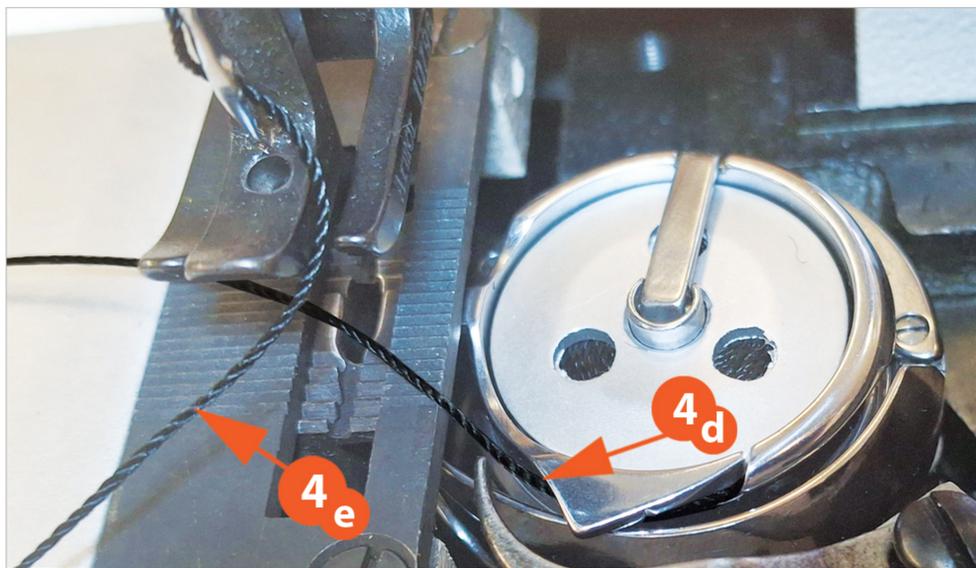
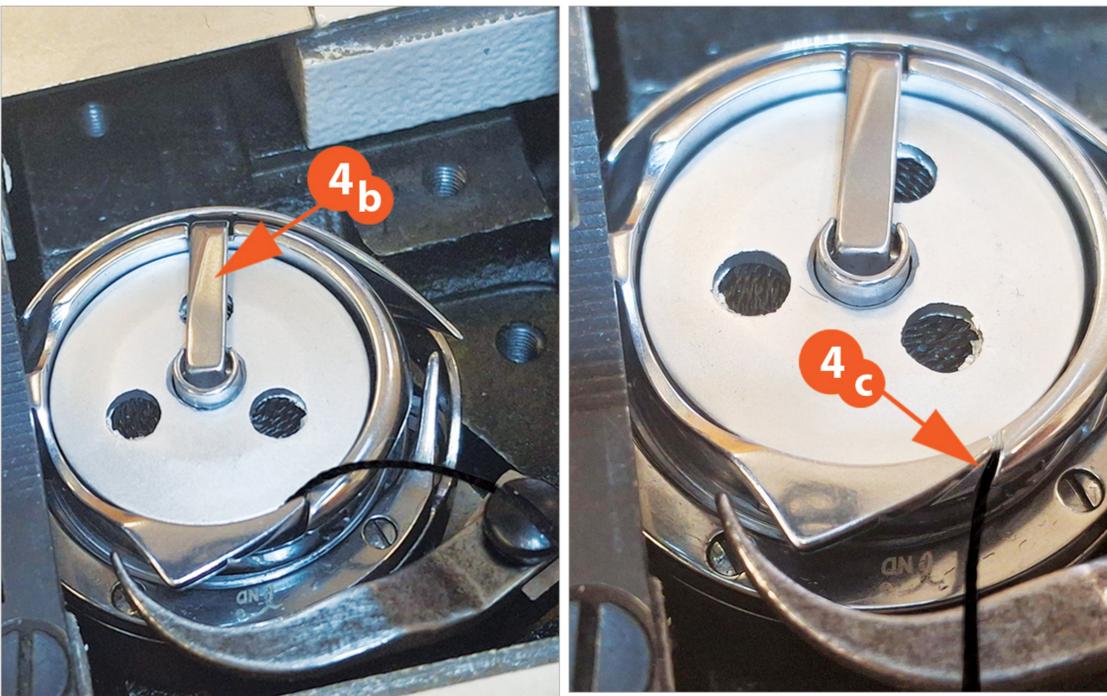
4c - Slide the thread into the slot.

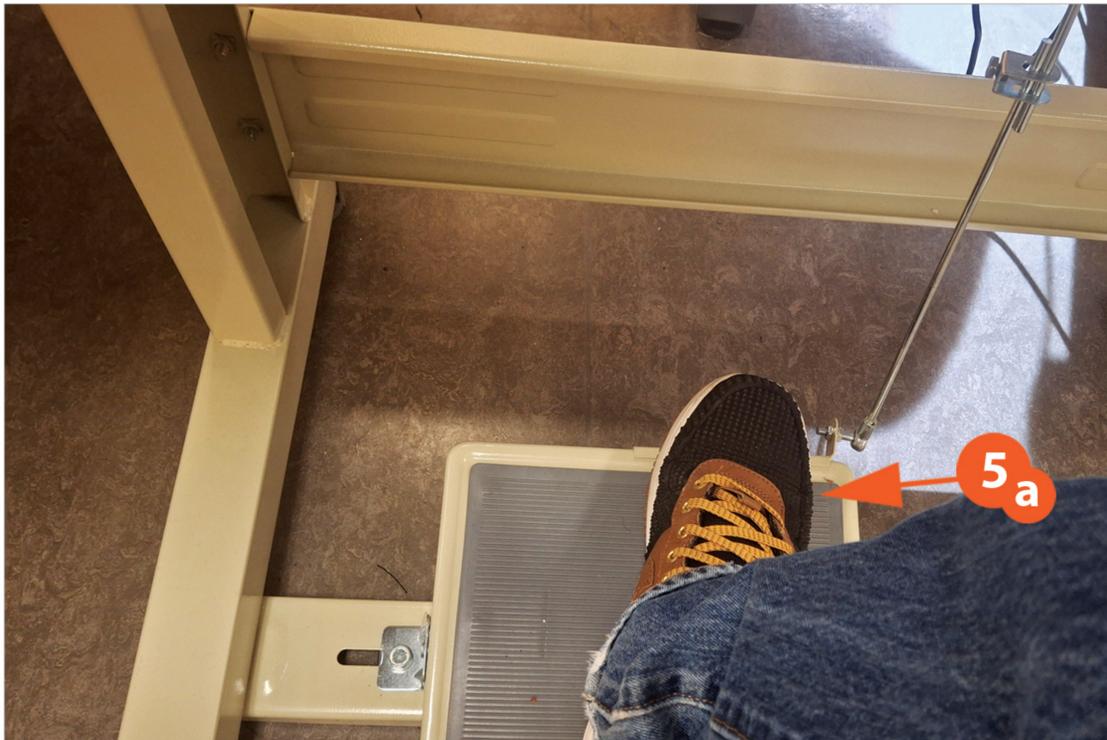
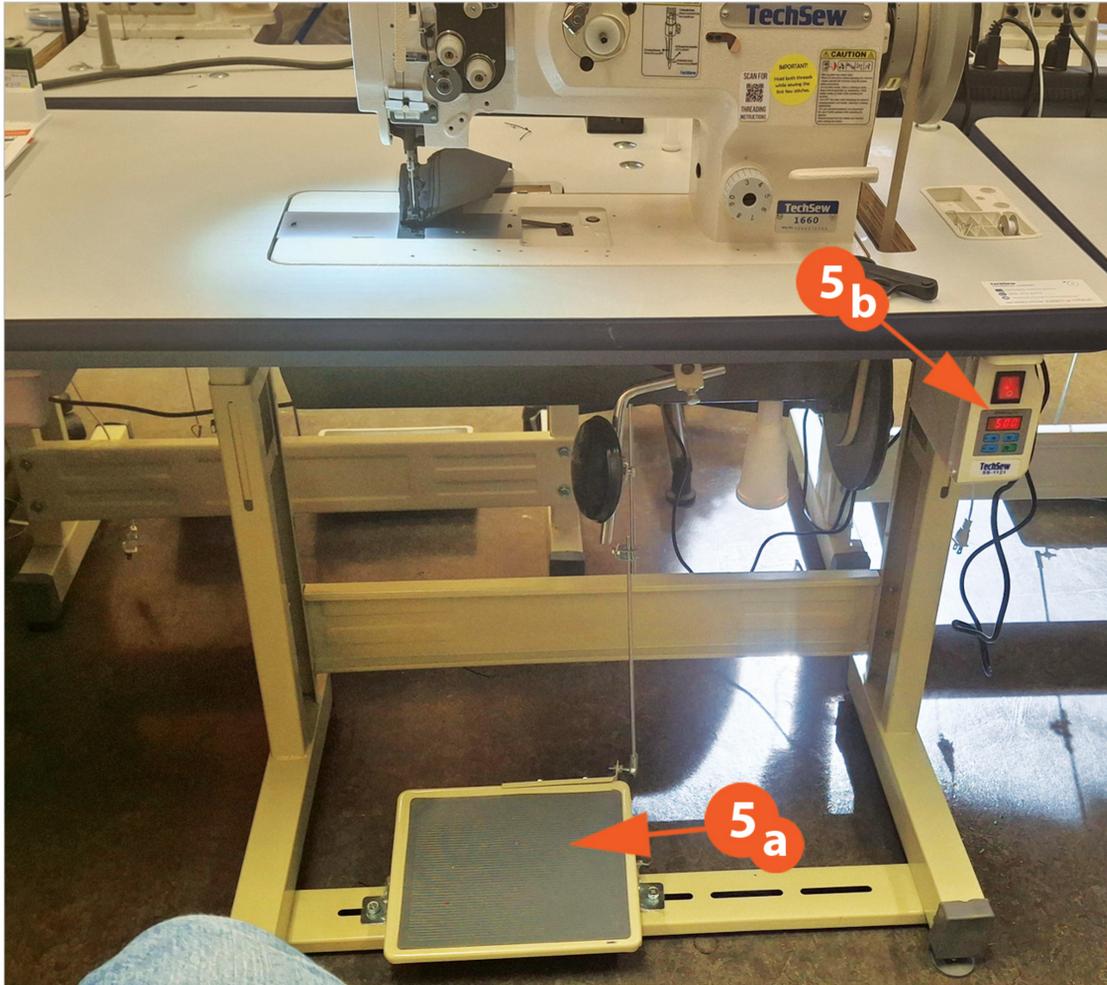
4d - Pull the thread under the triangle area.

4e - Holding the thread from the needle, rotate the flywheel to take the needle from the top, to the bottom, and back to the top.

4f - The bobbin thread will appear as a loop, Grab this loop with a screw driver or edge of snips....

4g - And pull it out. Then close the bobbin cover plate.





5

**CONTROLLING THE SPEED & POWER**

The Techsew 1660 speed is controlled by the foot pedal as well as the Speed Regulator.

The foot pedal is used to control the speed and has a range. It should be slowly squeezed or pressed down to start the machine stitching and slowly increased to the desired speed.

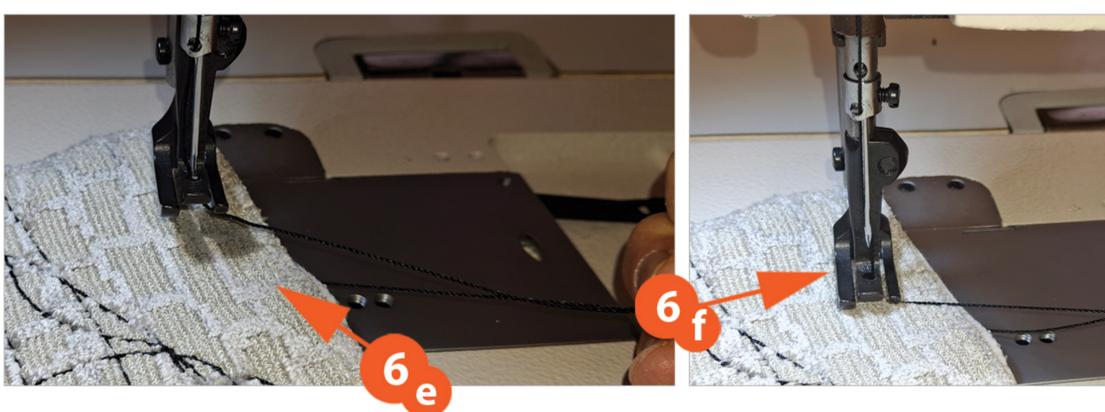
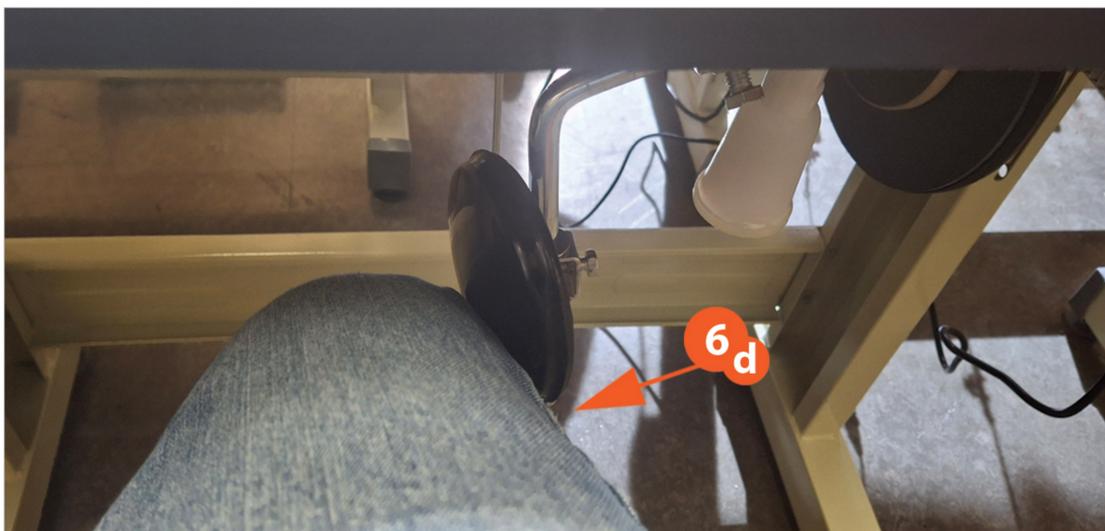
The Speed Regulator sets the machine from very slow to fast, with the gas pedal: controlling the range at each setting.

5a - Foot Pedal to start, stop and control the stitching speed.

5b - Speed Regulator to control the range of speeds. The slowest speed is 500. The fastest speed is 3500.

NOTE: Even at the fastest speed, if you gently press on the pedal the stitching will be fairly slow. Always start slow.

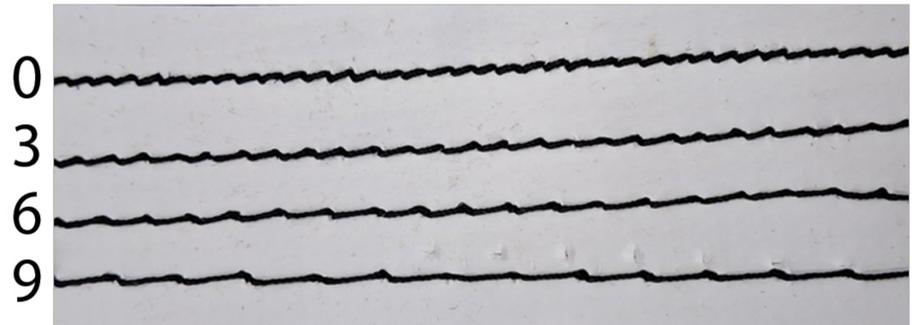




6

STITCH LENGTH

6a - Stitch length dial. This controls the length or number of stitches per inch.



REVERSE STITCH

6b - Press the Reverse Stitch lever down to lock the stitch and press the pedal slowly. You should do this at the start and end of every stitch.

PRESSURE FOOT KNEE LIFT

The pressure foot knee lift is used to lift the walking foot up to insert your material. You can sew up to 3/8" thickness of materials.

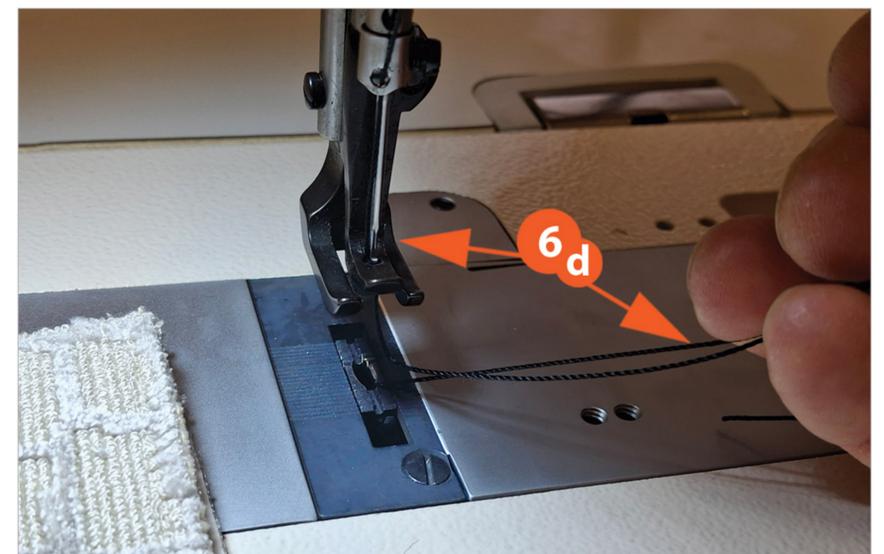
NOTE: **NEVER lift the Pressure foot up while pressing the Foot Pedal/stitching.**

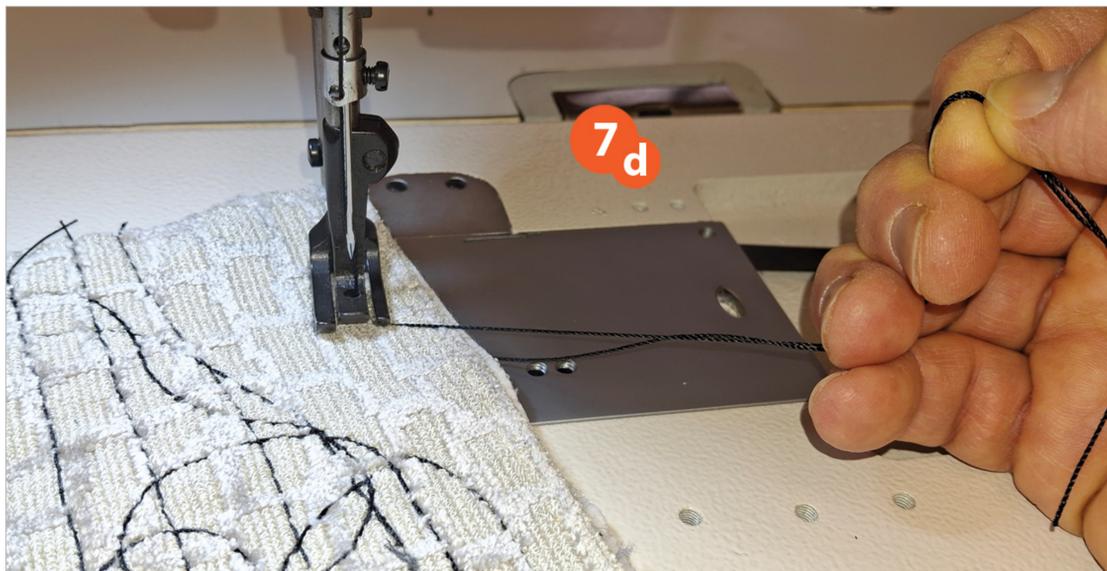
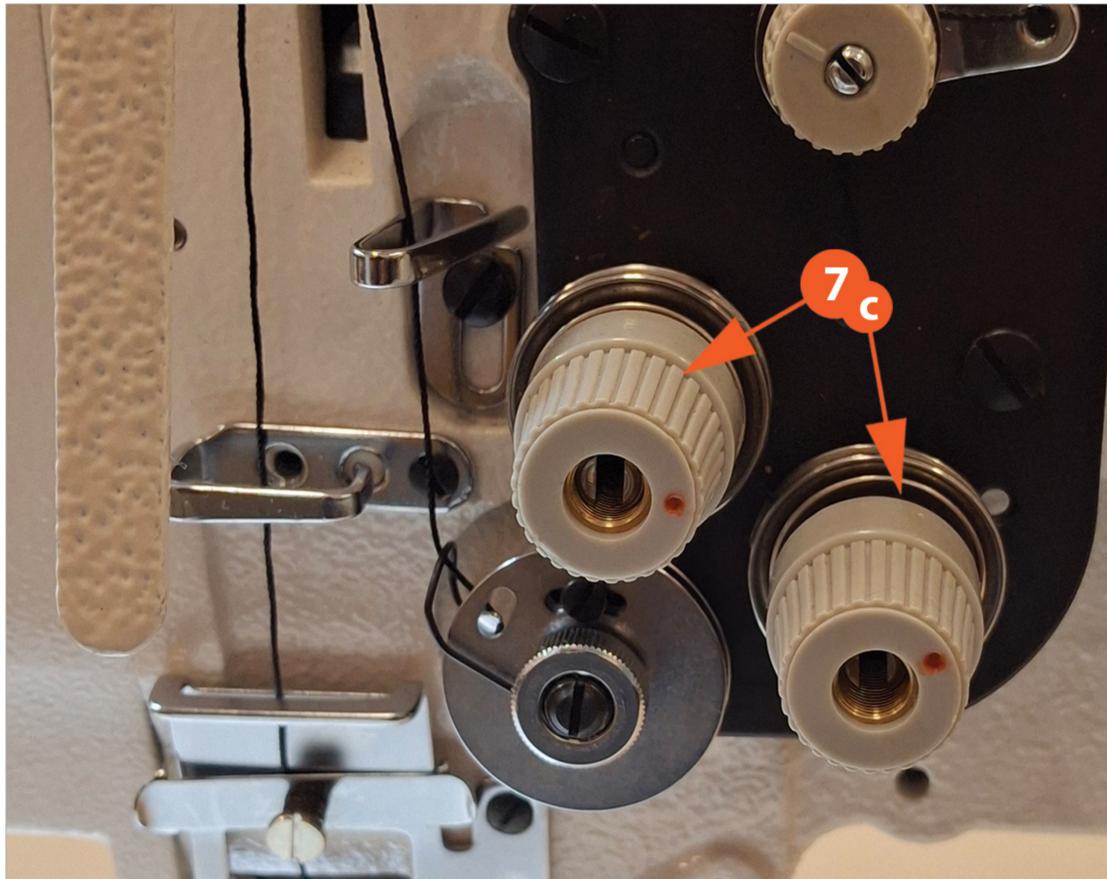
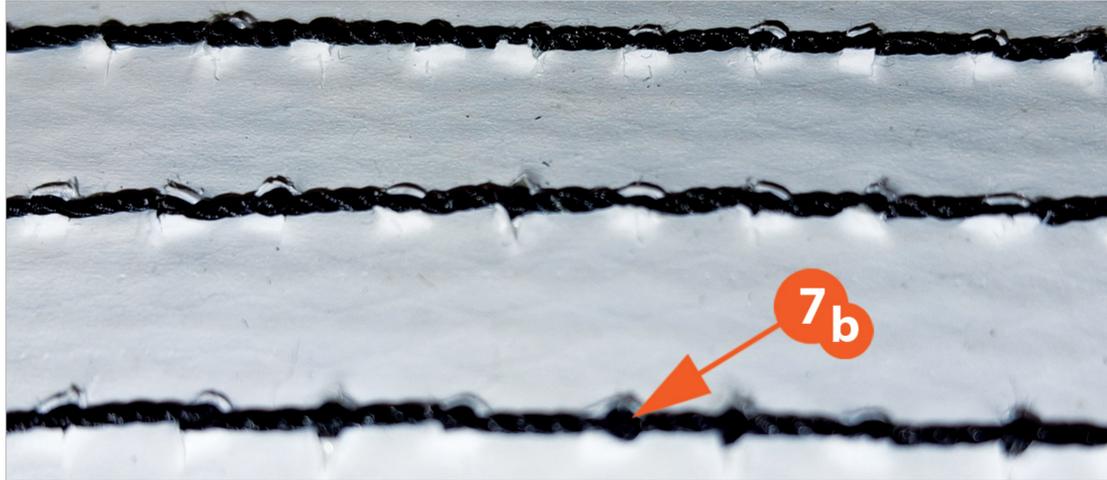
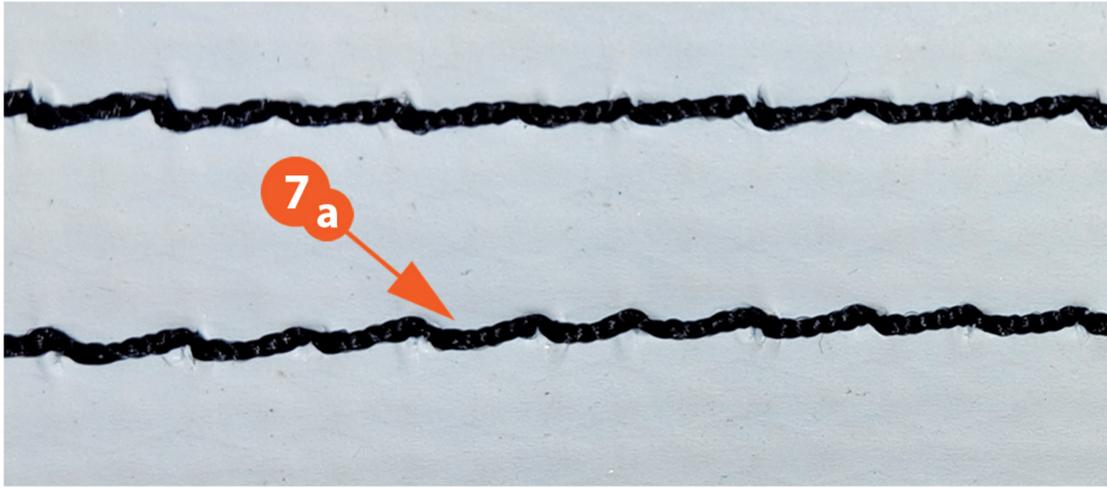
6c - Knee Paddle/Foot Lift.

6d - Holding the 2 threads, push your knee to the right to lift up the foot.

6e - Place your material under the foot...

6f - And then lower the foot down.





## 7

## STITCH QUALITY

7a - A good quality stitch.

7b - A poor quality stitch. You can see the "balls" at the end of each stitch. This means that the stitch is loose and not looped in the middle.

7c - The dual thread tensioners.

Improve the stitch by changing the upper thread tension:

If the stitch has **balls on the top** of the material - Rotate both thread tensioners to the **Left**.

If the stitch has **balls on the bottom** of the material - Rotate both thread tensioners to the **Right**.

## SEWING

7d - To begin sewing, Lift the foot, place your material under it. Hold both threads taut but not tight. Slowly press the Foot Peddle to start stitching, holding the material straight as it feeds into the walking foot.

Please see the How To Sew video link on the website or here:  
<https://iweb.langara.ca/makerspace/online-workshop-how-to-sew/>