

SUPERIOR THREADS



5/14

## DIGITAL THREAD TENSION SENSOR

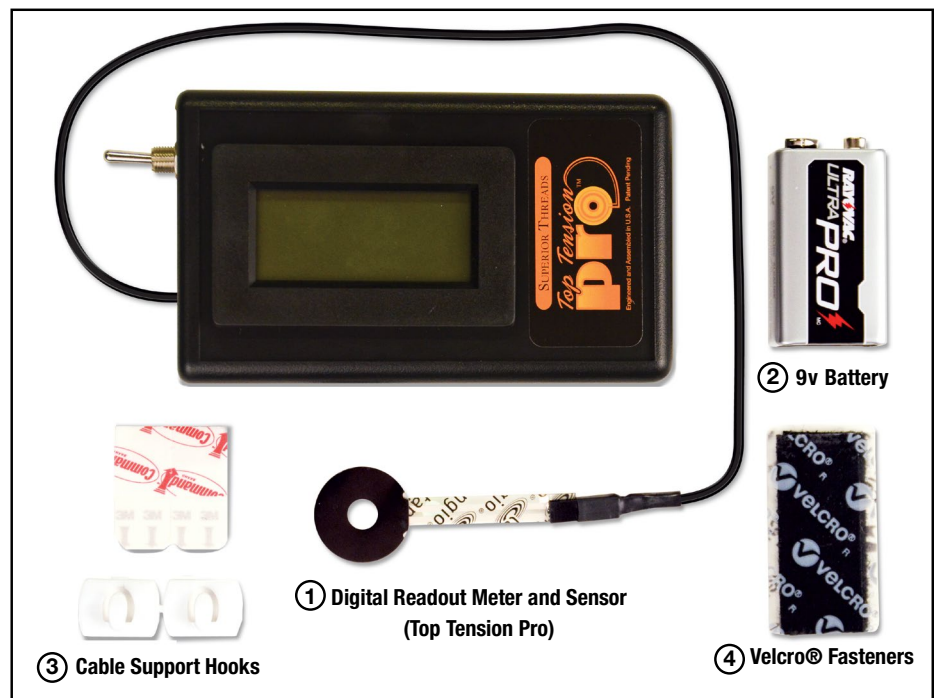
for Handi Quilter Longarm and other machines

For video demonstration go to [www.superiorthreads.com/top-tension-pro](http://www.superiorthreads.com/top-tension-pro)

Save these instructions.

### INCLUDED IN PACKAGE

1. Digital readout meter with attached cable and sensor disc
2. One 9-volt battery
3. Two stick-on cable support hooks
4. Self-sticking Velcro® fasteners
5. Instruction sheet and reference guide



### INSTALLATION INSTRUCTIONS

**STEP 1:** Remove the battery compartment door on the back of the Top Tension Pro and connect the 9-volt battery (provided). Flip the on/off switch to the on position and 3 numbers will appear. With no pressure on the sensor disc, the display should show a reading of 000, or - 000. Place the sensor disc between your thumb and forefinger and press gently. The numbers displayed should increase with applied pressure, which indicates an operating sensor. Turn the meter off and proceed with the installation.

**STEP 2:** Using the Velcro® fasteners provided, mount the Top Tension Pro onto your machine. Please be sure to place the Top Tension Pro close enough to the tension guide, so the sensor disc can easily reach the tension guide. (We recommend placing the Top Tension Pro on top of the left front handlebar. See photo on reverse.)

**STEP 3:** Add a cable support hook to the body of your longarm machine, close to the head. This will keep the sensor cable from moving around.



**STEP 4:** Remove all components from the tension guide, including both tension discs. Place each part in the order you removed them. This makes it much easier to put everything back together.

**REASSEMBLE TENSION ASSEMBLY ACCORDING TO PHOTO ABOVE**

**STEP 5:** Slide the sensor onto the tension shaft with the black side touching the machine. Place the tension discs, spring retaining washer, tension spring, knurled washer, and tension knob to complete the tension assembly.

**STEP 6:** Thread your machine like normal. There are no special threading steps, since the sensor is behind all tension components.

**STEP 7:** Refer to the included Tension Guide to set the top tension at a specific number, depending on the thread you will be using. There may be variations between the numbers we have posted on the Tension Guide and the numbers you see for correct stitching. This can be due to different bobbin thread, bobbin tension, batting thickness, fabric type and more. Please use the provided numbers as a starting point and fine tune the tension until you achieve a perfect stitch balance.

**STEP 8:** Once you have achieved proper stitch balance, record any change in number on the Tension Guide (if applicable), then turn off the Top Tension Pro and enjoy quilting!

**NOTES & TIPS**



*Please note that typically we only thread the top thread through two of the pre-tension holes (instead of all 3). This allows us more control of our top tension by applying or reducing more pressure with the tension assembly. For delicate threads such as Glitter, Metallic, and MonoPoly, we only thread through one of the pre-tension holes.*

*Tension is to be adjusted in the same manner as normal. Tighten the tension knob to increase the pressure placed on the thread, loosen the knob the reduce tension.*

*It is important that the top thread is 'flossed' between the two tension discs. If the thread is not firmly in place between both tension discs, the thread may loop or nest.*

# Superior Threads®

updated 5/2014

## LONGARM THREAD TENSION GUIDE FOR TOP AND BOTTOM THREADS

THREAD	NEEDLE SIZE	TOWA BOBBIN TENSION	TOP TENSION PRO™	NOTES
Art Studio Colors™	#18 (MR 4.0)	150-180	002	We recommend placing a Handy Net over the cone.
Bottom Line™	#14 (MR 3.0)	170-200	002	
Fantastico™	#18 (MR 4.0)	150-180	003	
Glitter™	#21 (MR 5.0)	150-180	000	Reduce speed, only thread through 1 of the 3 pre-tension holes.
Highlights™	#18 (MR 4.0)	150-180	002	We recommend placing a Handy Net over the cone.
King Tut™	#18 (MR 4.0)	200-230	007	
LAVA™	#18 (MR 4.0)	200-230	003	We recommend placing a Handy Net over the cone.
MasterPiece™	#16 (MR 3.5)	170-200	001	
Magnifico™	#18 (MR 4.0)	150-180	003	We recommend placing a Handy Net over the cone.
Metallic	#19 (MR 4.5)	150-180	000	Reduce speed, only thread through 1 of the 3 pre-tension holes, use a Handy Net.
Monopoly™	#14 (MR 3.0)	170-200	000	Reduce speed, only thread through 1 of the 3 pre-tension holes, use a Handy Net.
Nitelite Extra Glow™	#18 (MR 4.0)	150-180	001	Reduce speed, we recommend placing a Handy Net over the cone.
OMNI™	#18 (MR 4.0)	170-200	006	
Poly Quilter™	#21 (MR 5.0)	170-200	004	
Rainbows™	#18 (MR 4.0)	150-180	002	We recommend placing a Handy Net over the cone.
Kimono™ Silk #100	#14 (MR 3.0)	150-180	000	Reduce speed.
*Silk #50	#16 (MR 3.5)	150-180	001	
*Silk #30	#18 (MR 4.0)	150-180	001	
So Fine™ #30	#19 (MR 4.5)	150-180	003	We recommend placing a Handy Net over the cone.
So Fine™ #40	#18 (MR 4.0)	150-180	003	
So Fine™ #50	#16 (MR 3.5)	170-200	003	
Twist™	#18 (MR 4.0)	150-180	003	We recommend placing a Handy Net over the cone.
Vanish Extra™	#18 (MR 4.0)	150-180	001	Water soluble thread. We recommend placing a Handy Net over the cone.

\*We use SuperBOBs prewound bobbins in our longarm machines. The TOWA Bobbin Gauge tension numbers are measured with SuperBOBs.

\*We threaded the top thread through only 2 of the 3 pre-tension holes, unless otherwise noted.

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