

## Ti-Tape Tape Measure Tape Installation Procedure

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The TEC Accessories Ti-Tape product line consists of several varieties of micro-sized tape measures, all with a user-replaceable measuring tape. This replaceable tape guarantees a lifetime of use in the event the tape markings wear over time or the tape is damaged. Replacement tapes are available directly from our website, and can easily be replaced by following this procedure.

**CAUTION: Please wear proper eye protection when changing the measuring tape, and observe common sense safety precautions. The measuring tape is a coiled roll of spring steel, and can unexpectedly unroll and/or pop out of the housing if proper care is not taken.**

1. Place the tape measure on a flat surface with the cover screw facing up.



2. Using the wrench that was included with the Ti-Tape (1.3 mm hex wrench), press down firmly into the screw head while rotating counterclockwise. Remove the screw and the cover.



3. Remove the replacement tape and the guard disc from the packaging. There is a thin clear protective film on both sides of the guard disc, remove it and discard.



4. You must first remove the existing measuring tape from the housing. The safest method is to use the included guard disc that comes with the replacement tape, as its purpose is to keep the measuring tape inside the housing during the removal process. Attach the disc using the original cover screw and fasten it to the center hub. You do not need to tighten the screw, as the disc needs to rotate freely during the removal process.



5. With the disc rotated opposite the exit groove in the housing, pull the tape up and begin to rotate it out of the housing in a clockwise manner. Rotate the guard disc at the same time so that it is opposite the tape exiting the housing. If you feel the disc difficult to

rotate, back off the center screw slightly to provide free rotation of the disc (this may occur as rotating the disc may also grab the screw and tighten it further).



6. The measuring tape is actually two pieces, the measurement strip and the spring steel winding. They are attached together by means of a tab and slot. Note the orientation of this connection point as you are unwinding the tape. Continue to rotate both the tape and the winding out of the housing until it is completely unwound.



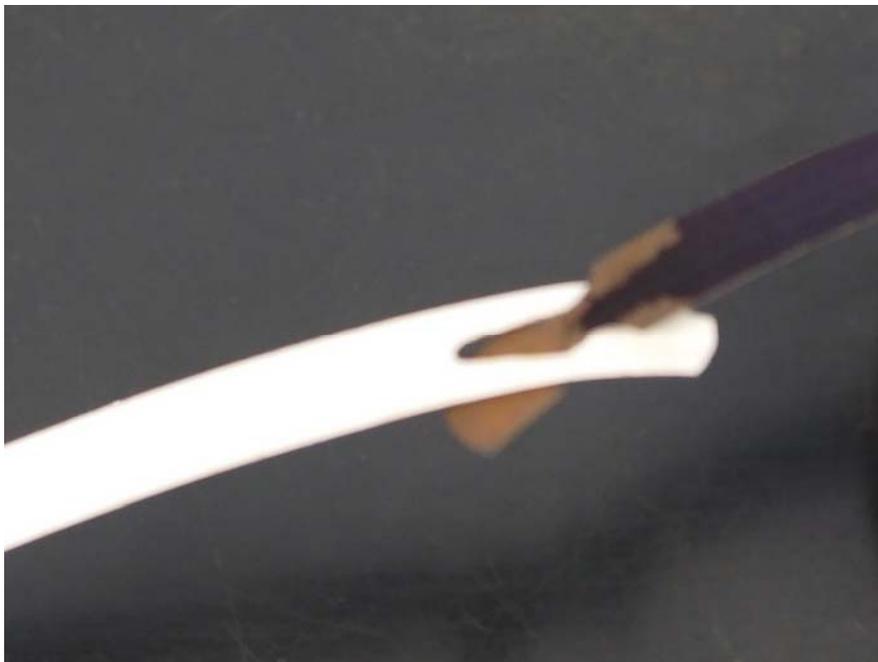
7. At this point you can safely remove the screw and guard disc.



8. The end of the winding is held in place onto the center hub by a small steel clip. Pull the clip off the center hub and remove the winding. Save the small steel clip and discard the old measuring tape and winding.



9. The replacement tape is tightly wound and restrained by a twist tie. The twist tie must be removed and the tape needs to be fully unwound. PLEASE TAKE EXTREME CAUTION WHEN REMOVING THE TWIST TIE. While holding the tape between your thumb and index finger, carefully remove the twist tie and SLOWLY allow the tape to unwind in your hand. Once the spring tension has been released, fully unwind the tape, keeping both the measurement strip and the spring steel winding together. If they separate, reattach them as shown below, with the curvature in the same direction and the spring steel winding on the outside surface of the curvature.



10. Lay the tape out straight, and position the end of the winding over the hub as shown. The winding must rest against the bottom flat of the hub, and rotate around the hub in a counterclockwise direction, then through the exit groove in the housing. Reattach the retention clip to the hub. Orient the clip so that the side with the bend is facing away from you, then slide the clip over the winding and the hub and push it down into place. Install the screw and lightly tighten (it only needs to hold the clip in place during installation of the tape).



11. Now you must wind the tape into the housing. Begin winding it counterclockwise, keeping it completely inside the housing as you rotate. You will occasionally have to pull the tape tight to reduce the size of the coil and provide enough of a gap between the tape and the housing so you can continue to wind it. Do this by placing the tape into the exit groove, then pull it straight out of the housing to reduce the diameter of the coil. Then pull it up and out of the exit groove and continue winding. Using your thumb or finger, keep the tape restrained **being careful not to let the tape pop out of the housing**. Continue winding until you have approximately  $\frac{1}{2}$  of the measurement tape remaining outside the housing (at about the 18" mark). Place the tape back into the exit

groove. While holding your thumb over the top of the housing to retain the tape, allow the tape to retract fully into the housing. If it does not retract on its own, pull the end tab out and continue winding until you can get the tape to retract by itself.



12. At this point, we can check the measurement length and tension of the tape. Hold your thumb over the housing to retain the tape during the measurement check. Pull the end tab of the tape **straight out** from the housing as far as you can to determine if you can reach 36 inches.

If you get more than 36 inches, you will likely not have enough tension for the tape to fully retract on its own. At this point you will need to wind the tape tighter one or more revolutions so that you just reach 36 inches of measuring length.

If you do not reach 36 inches, you will need to unwind the tape one or more revolutions in order to obtain a full 36 inches of length.

**For each full revolution of winding or unwinding, you will add or subtract approximately 1-1/4" to 1-1/2" of measuring length.**



13. Once you have obtained a full 36" of measurement length, allow the tape to retract back into the housing. Carefully remove the screw from the center hub, place the cover over the housing, and reinstall the screw. Make sure to press down firmly with the wrench into the screw head while rotating clockwise, being careful not to strip out the screw socket.