



INSTALLATION INSTRUCTIONS

PART NUMBER	154-8519
PART DESCRIPTION	STRAP REPLACEMENT KIT
REV DATE	4/17/2012
MACHINE MODELS	N/A



Basic knowledge of ALL aspects of the machine lift including mechanical operation

TOOLS NEEDED:

- | | | |
|-------------------------------|--------------------|--------------------|
| Phillips Screwdriver | 11/32" Wrench | 3/8" Wrench |
| 5/32" Allen Wrench | Tape Measure | Vise Clamp |
| 1/8" Allen Wrench | 9/16" Wrench | 3/16" Allen Wrench |
| Non-Slip Gloves (recommended) | Dremel Tool or Saw | |

PARTS NEEDED:

154-8519 Strap Replacement Kit – Machine Lift



TECHNICAL NOTE

Please thoroughly read the instructions prior to performing the installation of this assembly.

To avoid any potential problems, if at any time during the process you have a question, stop and contact our Tech Support

Please visit our growing library of videos to see if these instructions are available!

 www.youtube.com/user/KegelBowling81



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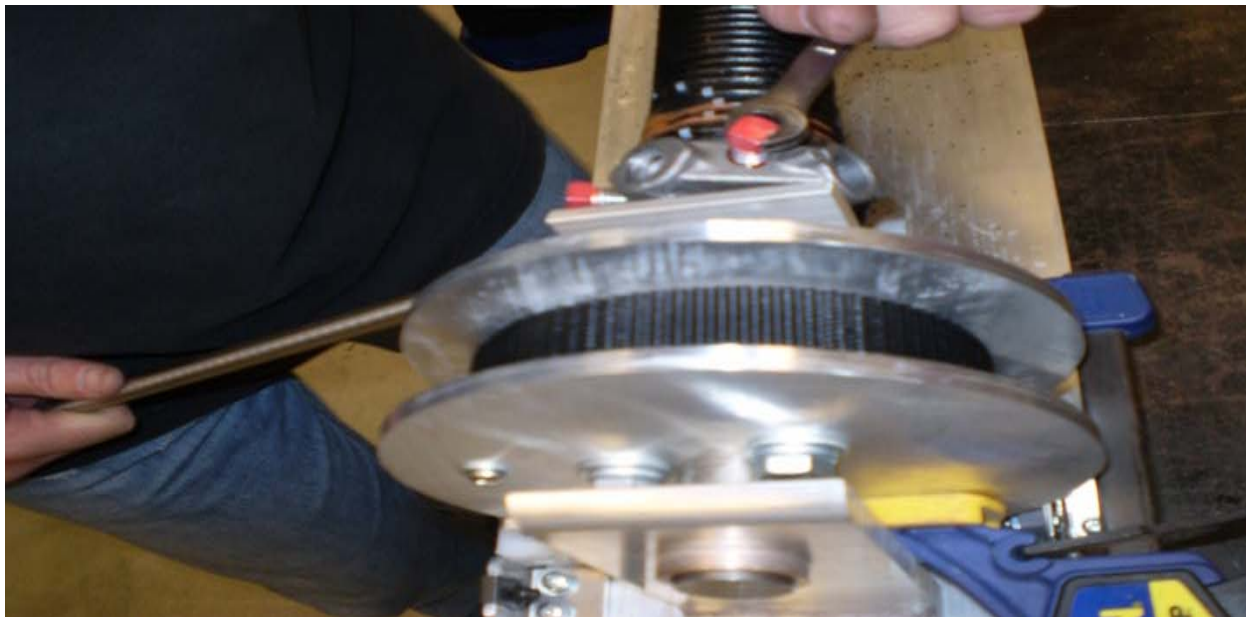
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******CAUTION – CAUTION – CAUTION******

THE TORSION SPRINGS IN THE MACHINE LIFT ARE WOUND TIGHTLY AND EXTREME CAUTION IS NEEDED WHEN LOOSENING & TIGHTENING THE SPRINGS DURING THIS INSTALLATION.

- 1) Using a Phillips screw driver, loosen & remove the eight 8-32 x ¾” MS securing the machine lift cover to the mounting plate.
- 2) Move the machine handle to the “LOWER” position.
- 3) Insert the 158-6719 Winding Shaft into the hole on top of the cast portion of the torsion spring. Push the shaft away from you and towards the wall (above the lift) to access the two 3/8” square head bolts. While applying continuous pressure, loosen both square head bolts. Once the bolts are loose, walk the winding shaft towards you to begin releasing the pressure on the spring. Once the first shaft has been walked down under the lift, install the second shaft at the top of the spring into another hole in the cast portion. Continue walking the shaft toward you until all pressure has been released from the spring.

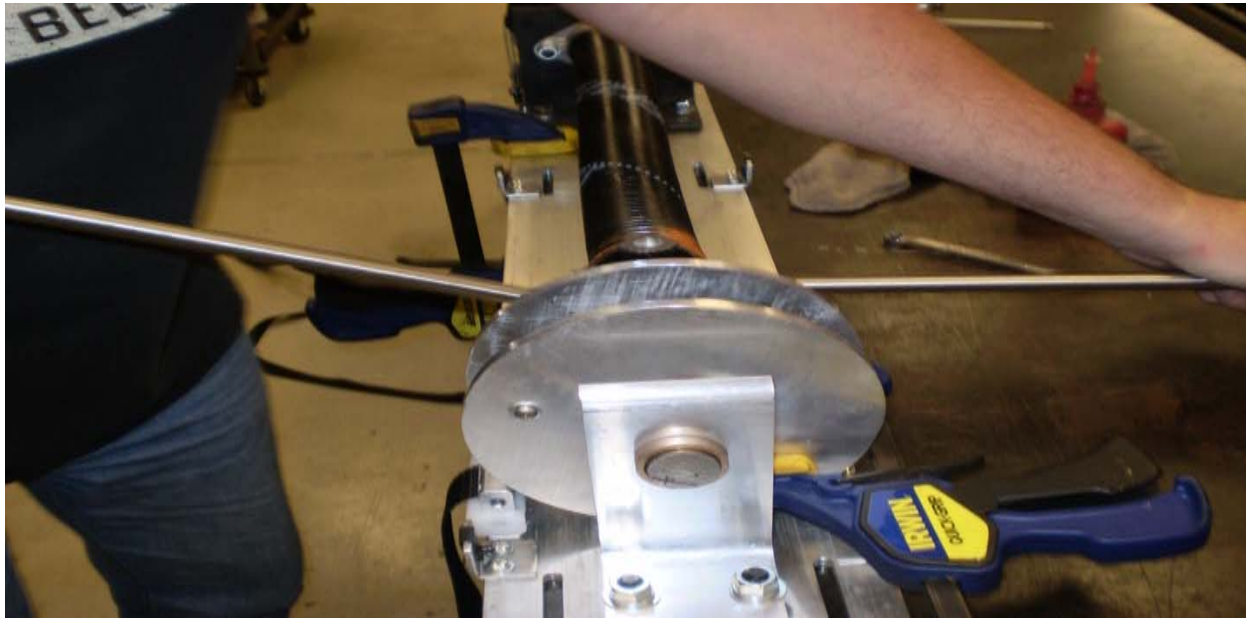


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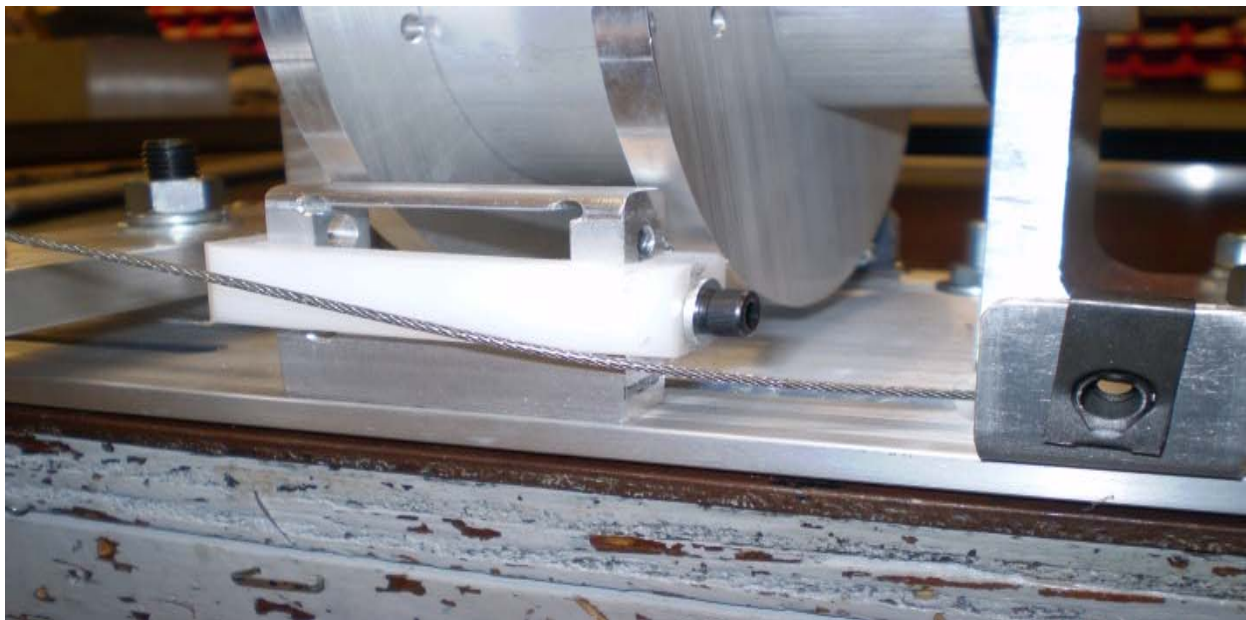
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4) Using the 5/32" Allen wrench, loosen and remove the black SHCS that mounts the front UHMW portion to the aluminum portion of the strap guide. NOTE: If the strap guide has the metal rollers (older models), remove the rollers using a 1/8" Allen Wrench.



5) Using the Phillips screwdriver & 11/32" wrench, loosen & remove the 8-32 x 2-1/4" screw that secures the strap loop to the strap pulley assembly. Remove broken strap from the pulley.



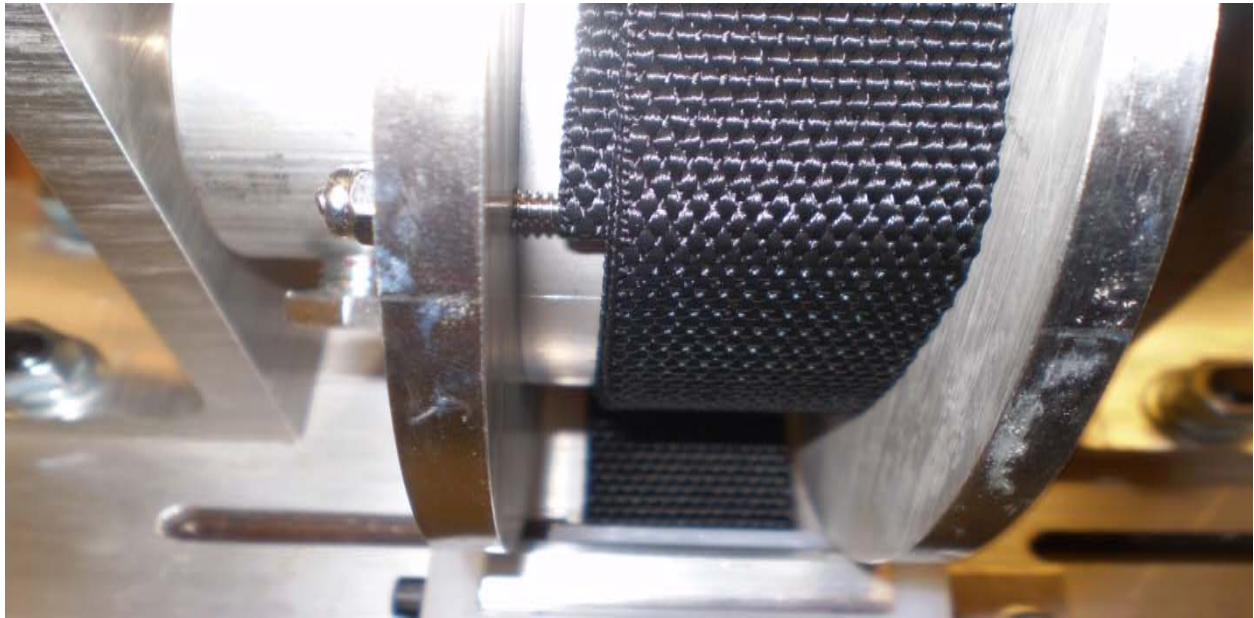
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Rev. 3.14



- 6) Unroll the replacement strap. Install the 6" piece of black rubber tubing (this replaces the rectangular UHMW Strap Stops on older models) on the strap on the end that is 92" from the silver line drawn on the strap.
- 7) On the same end of the strap, install the spring snap (removed from the broken strap) so it opens from the inside of the strap once installed.
- 8) Slide the opposite / plain end of the replacement strap through the strap guide, underneath the strap pulley, and up & around to the mounting screw location from the backside. Slide the 8-32 x 2-1/4" screw (removed in step #5) from the outside of the pulley, through the loop in the strap, and secure with the 8-32 flat washer & 8-32 lock nut on the side of the pulley nearest the spring.
- 9) Re-install the UHMW portion of the strap guide back onto the aluminum portion of the guide using the black SHCS. Tighten screw completely.
- 10) Move the machine handle to the "RAISE" position to dis-engage the ratcheting mechanism.
- 11) Rotate the strap guide pulley so the replacement strap starts rolling up onto the pulley. Apply a small amount of tension on the strap while rolling to remove any excess slack / stretch in the strap. Continue turning the pulley until the line on the strap is as close to the front of the UHMW portion of the strap guide as possible. At this time, move the handle back into the "LOWER" position to engage the ratcheting mechanism.



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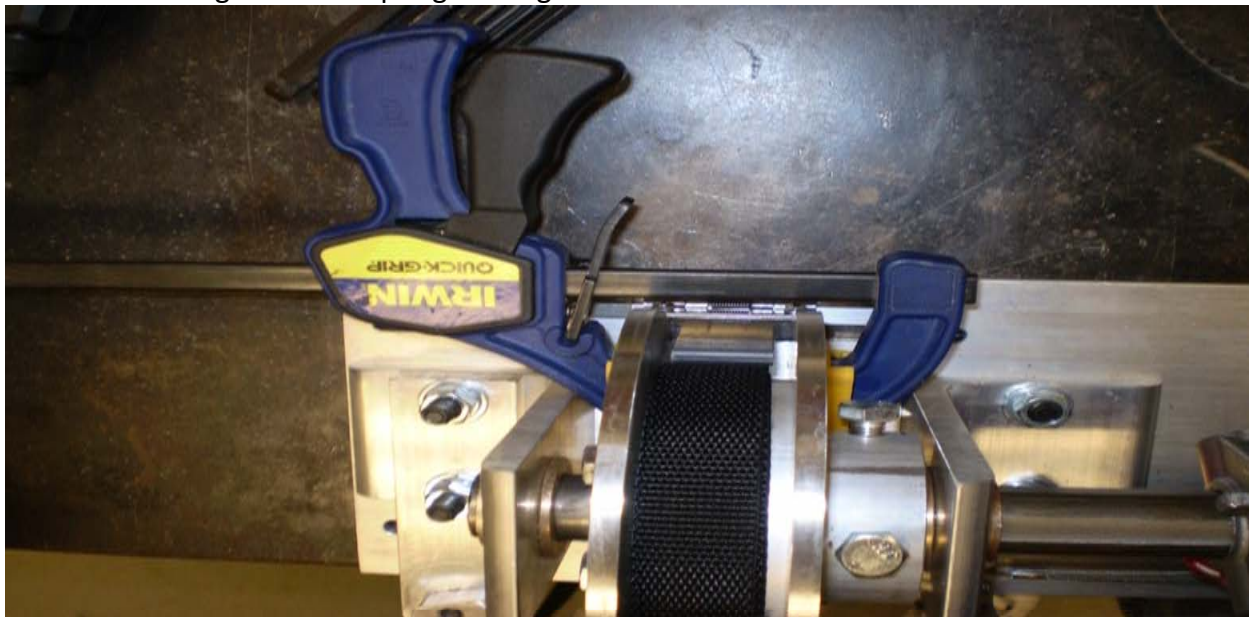
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- 12) Install the vise clamp on the top portion of the pulley assy so it is positioned right up against the wall. Tighten clamp to secure in place. This clamp prevents the pulley assy from turning when the spring is re-tightened.



- 13) Using the spring winding shafts, rotate the spring EIGHT full 360 degree rotations (SIXTEEN half 180 degree rotations) to obtain the correct spring tension. While continuing to hold a constant and firm pressure against the spring, *COMPLETELY* tighten the two 3/8" square head bolts onto the shaft flat spots to secure the spring in place.

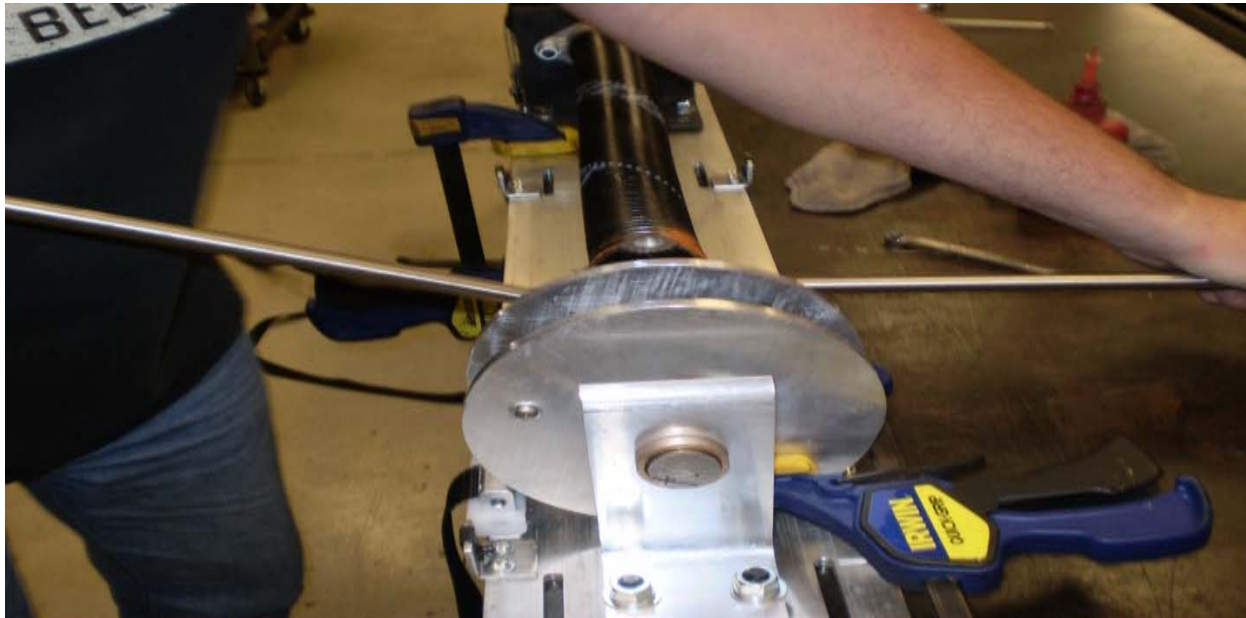


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14) Pull both straps out to check the strap tension. Both should be very close to the same.



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