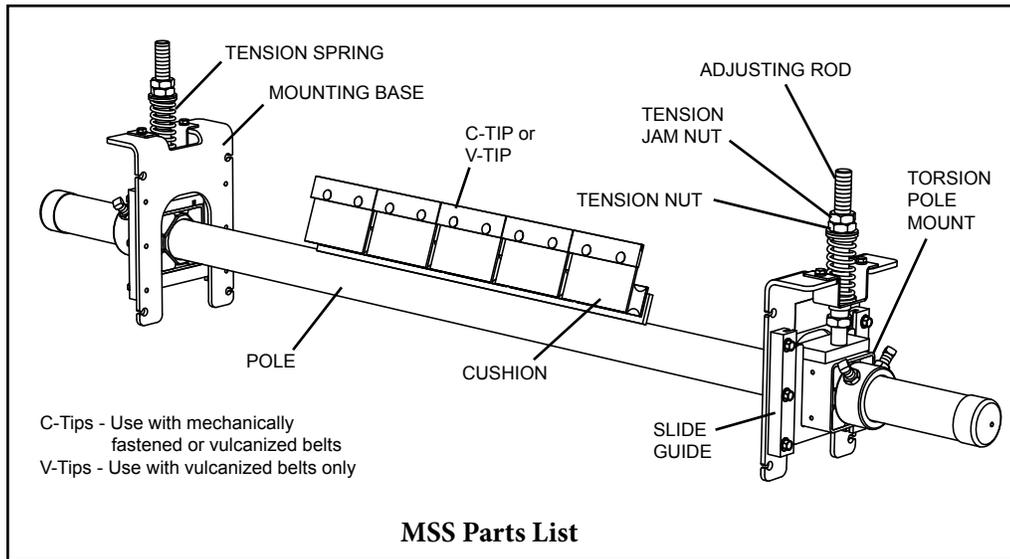
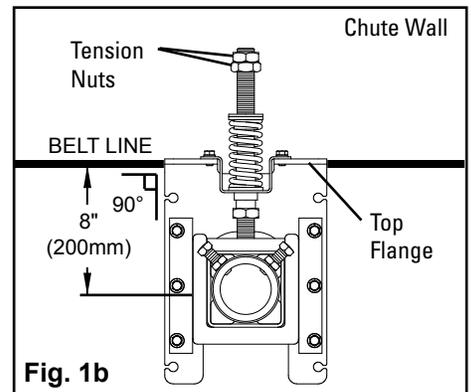
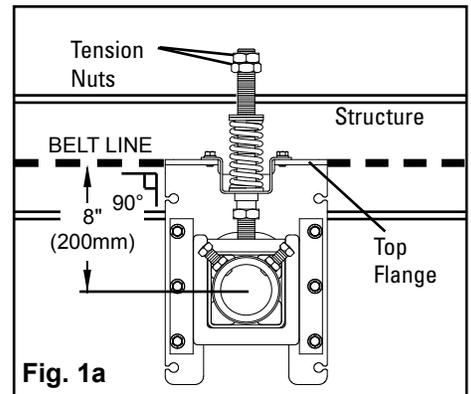
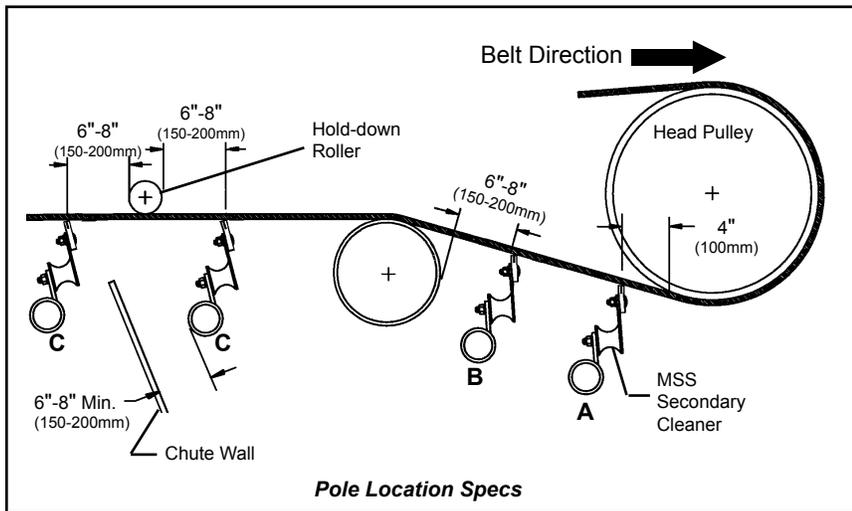


MSS SECONDARY CLEANER

Installation Instructions

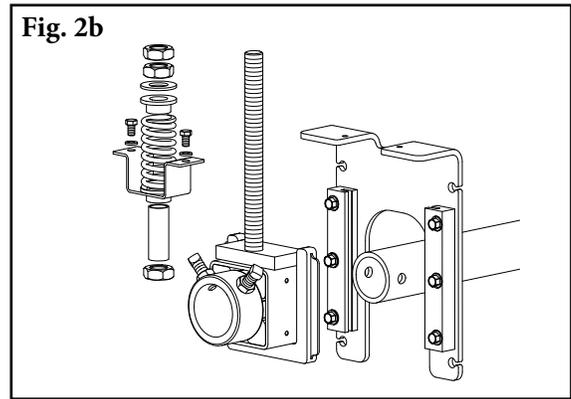
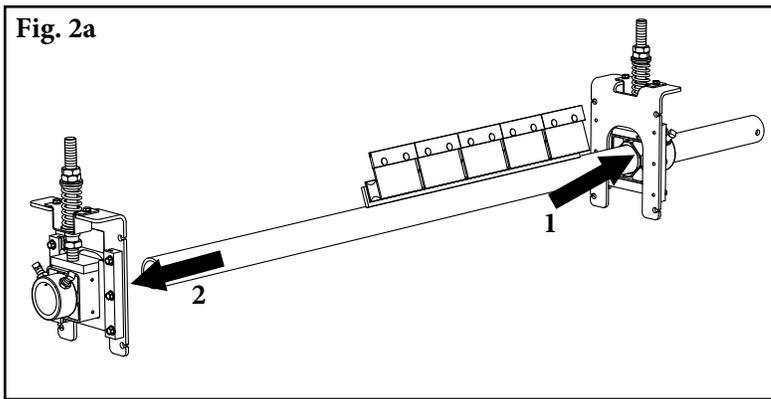


PHYSICALLY LOCK OUT AND TAG THE CONVEYOR AT THE POWER SOURCE BEFORE YOU BEGIN CLEANER INSTALLATION.

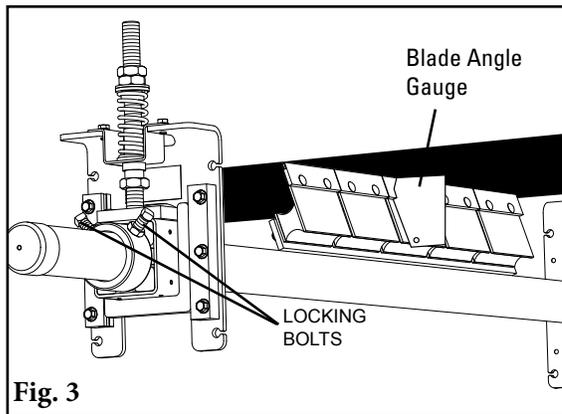


1. Install the spring tensioner mounting bases. (For push-up tensioning refer to additional instruction sheet included in packet.) Clamp the mounting base into position so the top flange of the base is even with the belt (Fig. 1a). Bolt or weld the mounting base in place. Locate and install the mounting base on the opposite side. Adjust the tension nuts on each side so the center of the torsion pole mount is 8" (200mm) below the belt line.

NOTE: For chute mounting, a belt location line must be drawn on the chute wall so the mounting base can be aligned with the belt (Fig. 1b). Cut access holes as needed.



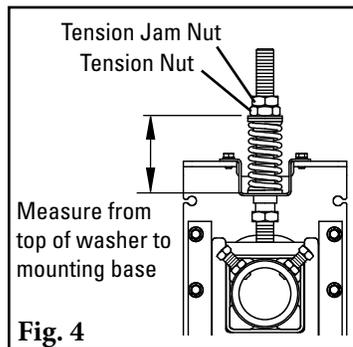
2. **Install the pole.** Slide the pole into one torsion pole mount as far as needed and locate the other end into the opposite mount (Fig. 2a). If there is not enough space, remove one of the torsion pole mounts from the mounting base, slide the pole through the mounting base and reassemble (Fig. 2b).



3. **Set the blade angle.** Center the pole/blades on the belt. Using the angle gauge provided, rotate the blades up to the belt to the preset angle. Tighten the two locking bolts on each torsion pole mount to lock the pole in place (Fig. 3). There should be no blade-to-belt contact while locking the pole in the correct position. If contact occurs, lower the pole by turning the adjusting rod tension nuts and reset the angle.

SPRING LENGTH CHART

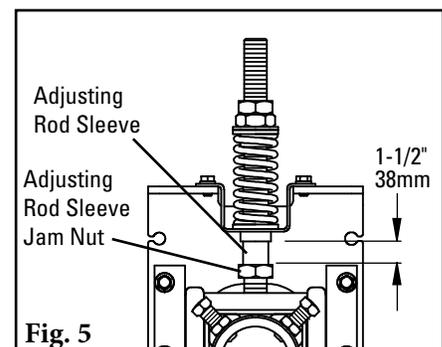
Imperial				Metric			
Blade Width	White Spring	Silver Spring	Black Spring	Blade Width	White Spring	Silver Spring	Black Spring
18"	3 1/2"	4 1/8"	N/A	450	91	104	105
24"	3 1/4"	4"	N/A	600	86	102	104
30"	3"	3 7/8"	N/A	750	80	99	102
36"	N/A	3 7/8"	4"	900	N/A	97	100
42"	N/A	3 3/4"	3 7/8"	1050	N/A	95	98
48"	N/A	3 5/8"	3 3/4"	1200	N/A	93	97
54"	N/A	3 1/2"	3 3/4"	1350	N/A	91	95
60"	N/A	3 3/8"	3 5/8"	1500	N/A	89	93
72"	N/A	N/A	3 1/2"	1800	N/A	N/A	90
84"	N/A	N/A	3 3/8"	2100	N/A	N/A	86



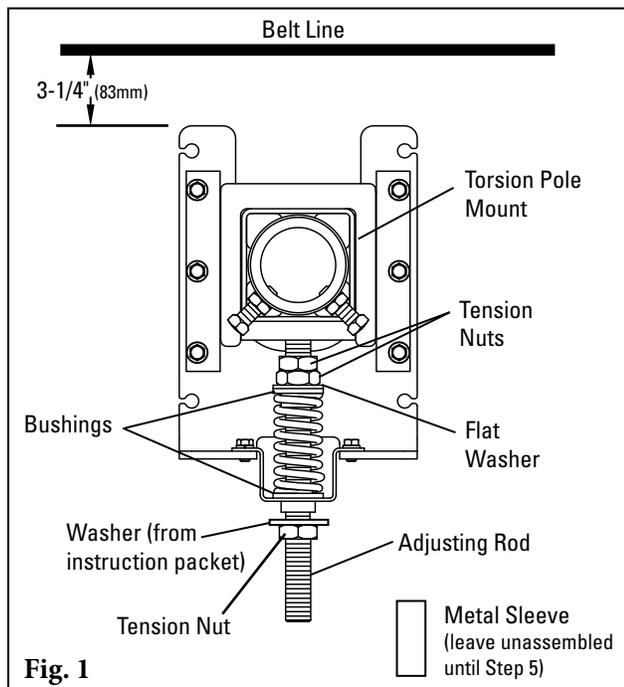
4. **Set the blade tension.** Loosen the top tension jam nuts on both sides. Turn the tension nuts until the correct spring compression is reached (Fig. 4). Spring compression is determined by spring length. See the chart below for the correct spring length for your belt width.

5. **Set adjusting rod sleeve.** After setting the blade tension, screw the adjusting rod sleeve into the UHMW bushing until 1-1/2" (38mm) is showing (Fig. 5). Tighten the adjusting rod sleeve jam nut.

6. **Test run the cleaner and inspect the cleaning performance.** If vibration occurs or more cleaning efficiency is desired, increase the blade tension by making 1/8" (3mm) compression adjustments on the tension springs.



Push-up Tensioning Instructions



1. **Reconfigure the standard pull-up tensioner to the push-up style.** Remove the 3 tension nuts, the flat washer, 2 bushings, the spring, the sleeve and the hat bracket; reassemble (Fig. 1) with 2 tension nuts, the flat washer, 2 bushings, the spring and the hat bracket on the upper end of the adjusting rod. Add washer (from instruction packet) and 3rd tension nut to bottom of adjusting rod.

2. **Install the tensioner mounting bases.** Mount the bases to the structure or chute so that the tops of the base legs are 3-1/4" (83mm) below the belt (Fig. 1).

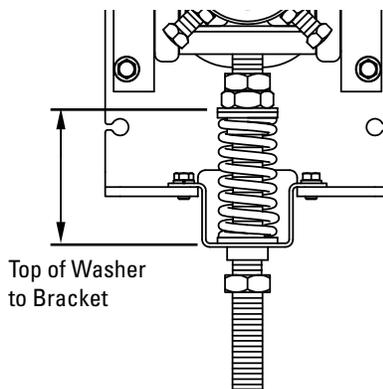
3. **Install the cleaner pole and set the blade angle.** Follow the installation steps from the cleaner instructions on Page 8. **Note:** be sure the lock bolts on the torsion pole mount have been securely tightened to lock the pole in place before moving to Step 4.

4. **Set the blade tension.** Remove the bottom tension nut and washer from the adjusting rod. Turn the 2 upper tension nuts until the spring is compressed to the length shown on the Spring Length Charts below. Tighten the 2 tension nuts together to prevent loosening.

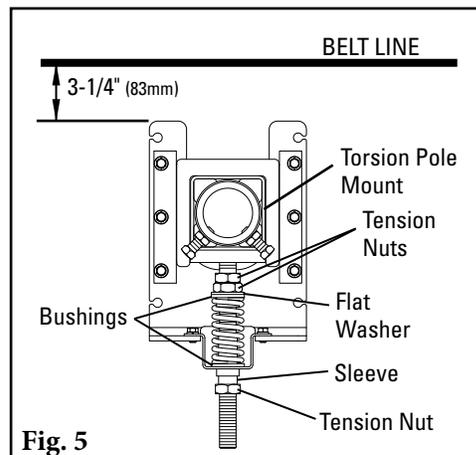
SPRING LENGTH CHART

Imperial				Metric			
Blade Width	White Spring	Silver Spring	Black Spring	Blade Width	White Spring	Silver Spring	Black Spring
18"	3 1/2"	4 1/8"	N/A	450	91	104	105
24"	3 1/4"	4"	N/A	600	86	102	104
30"	3"	3 7/8"	N/A	750	80	99	102
36"	N/A	3 7/8"	4"	900	N/A	97	100
42"	N/A	3 3/4"	3 7/8"	1050	N/A	95	98
48"	N/A	3 5/8"	3 3/4"	1200	N/A	93	97
54"	N/A	3 1/2"	3 3/4"	1350	N/A	91	95
60"	N/A	3 3/8"	3 5/8"	1500	N/A	89	93
72"	N/A	N/A	3 1/2"	1800	N/A	N/A	90
84"	N/A	N/A	3 3/8"	2100	N/A	N/A	86

Shading indicates preferred spring option.
NOTE: Measure from the top of the flat washer to the mounting base to determine spring length.



5. **Replace the sleeve.** Position the sleeve over the adjusting rod and turn it until it is in the middle of the bushing. Replace the bottom tension nut and tighten until it locks the sleeve in place (Fig. 5).





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