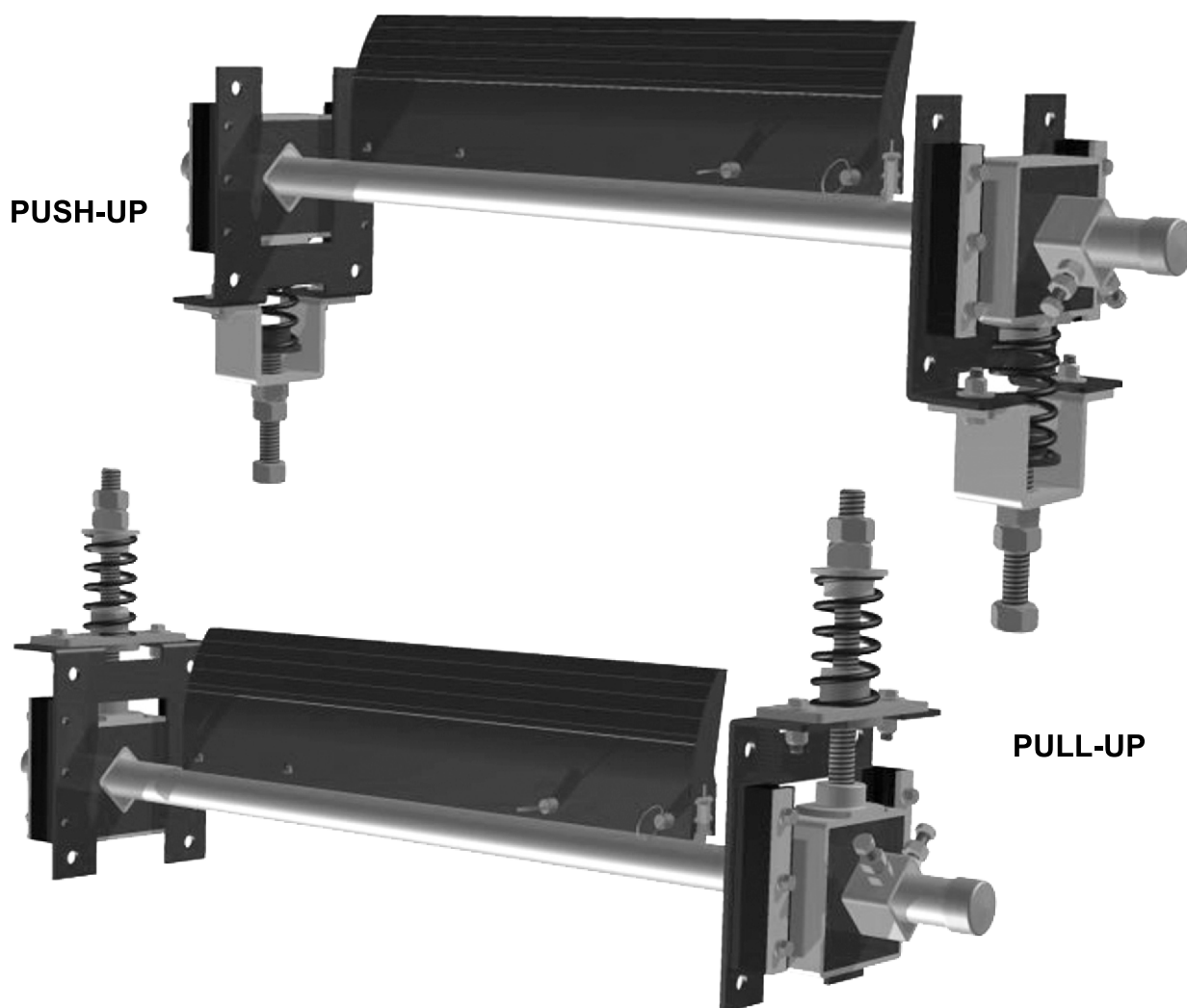




DRY WIPE[®]

*Reversing Secondary Belt Cleaner
with Spring-Shoc[™] Tensioner*

INSTALLATION, OPERATION & MAINTENANCE INSTRUCTIONS



Check us out at
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301 Gordon Street
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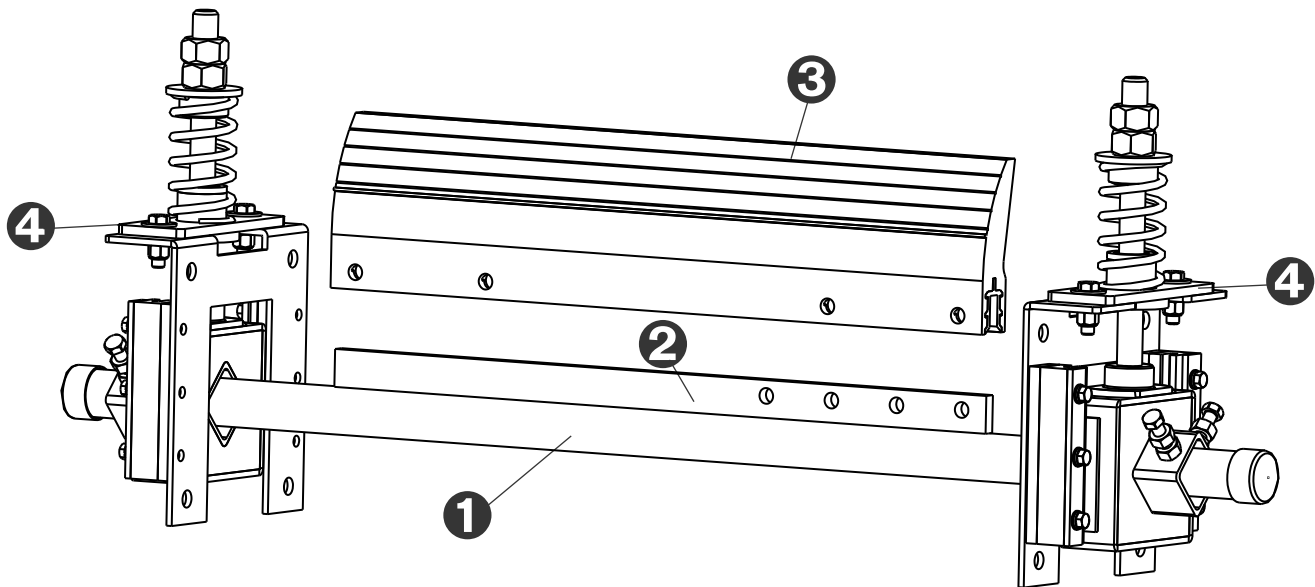
Important Safety Notice

Always observe the basic rules of safety when working with any conveyor system. To avoid injury and equipment damage, be sure that all controls to the conveyor are locked out and the power source is disconnected at all times during installation and maintenance.

Overall View

If mounting structure is not available, additional steel may have to be added. *Note: Excess mounting tube may be trimmed after installation.*

Components Diagram

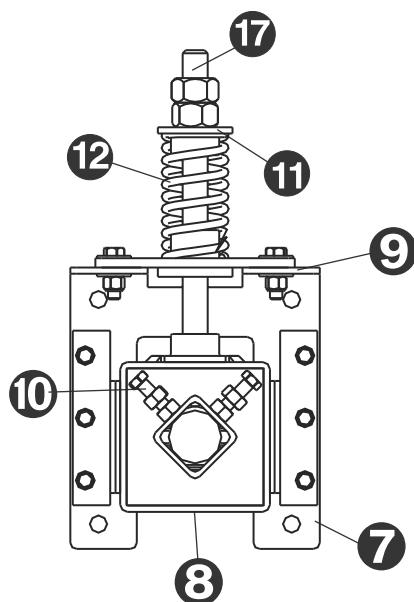


1. Dry Wipe Mounting Tube
2. Dry Wipe Blade Holder
3. Dry Wipe Blade
4. Spring-Shoc Tensioner (Pull-Up Position Shown)

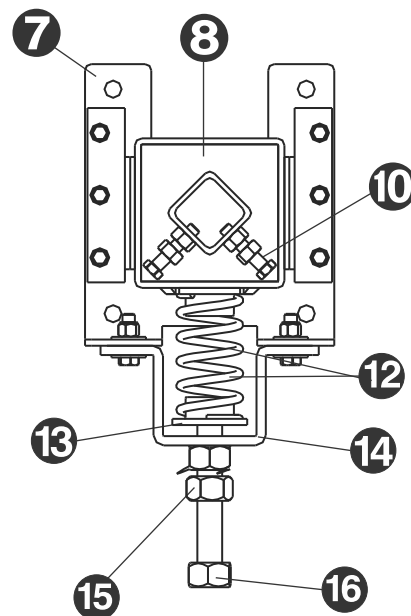
Determine Cleaner Mounting Location

The Dry Wipe™ is a reversing secondary belt cleaner and as such should be located on the return side of the belt after the belt leaves contact with the head pulley as shown below. Preferably it should be located within the confines of the head or dribble chute.

Spring-Shoc Tensioner Components



PULL-UP Position



PUSH-UP Position

- 7. Mounting Bracket
- 8. Slide Block
- 9. Pull-Up Bracket
- 10. Set Screws
- 11. Thru-Hole Spring Bushing
- 12. Compression Spring (Light Duty - Red) (Heavy Duty - Silver)
- 13. Push-Up Spring Bushing
- 14. Push-Up Bracket
- 15. ACME Lock Down Nut
- 16. Push-Up ACME Adjustment Bolt
- 17. Pull-Up ACME Adjustment Bolt

Determining Location of Cleaner

The Dry Wipe™ is a secondary belt cleaner and as such should be located on the return side of the belt after the belt leaves contact with the head pulley as shown below. Preferably it should be located within the confines of the head or dribble chute.

The Spring-Shoc Tensioner can be mounted in either the Pull-Up Position or the Push-Up Position depending on the structure that the tensioner bracket will be mounted on and the surrounding components. See Figure 1.

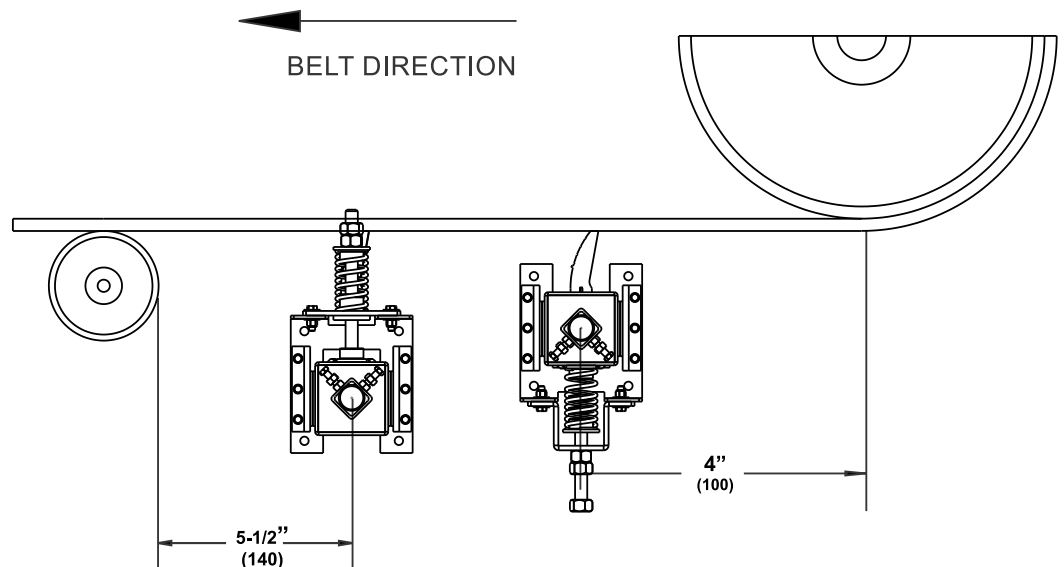


Figure 1. Typical Cleaner Mounting Locations

- The recommended clearance from the belt tangent point off the head pulley to the tip of the cleaner blade is 4 inches (100 mm).
- The recommended clearance between the center of the mounting tube and a snub pulley is 5 ½ inches (140 mm).

Mounting Brackets

The Mounting Bracket should be attached to the chute wall or conveyor structure using the four mounting holes and ½ -13 UNC x 2 ½ inch hex head bolts. See Figure 2 for mounting hole dimensions.

The Mounting Brackets can also be welded in place. (Note: the Mounting Brackets are a Cast 304 Stainless Steel)

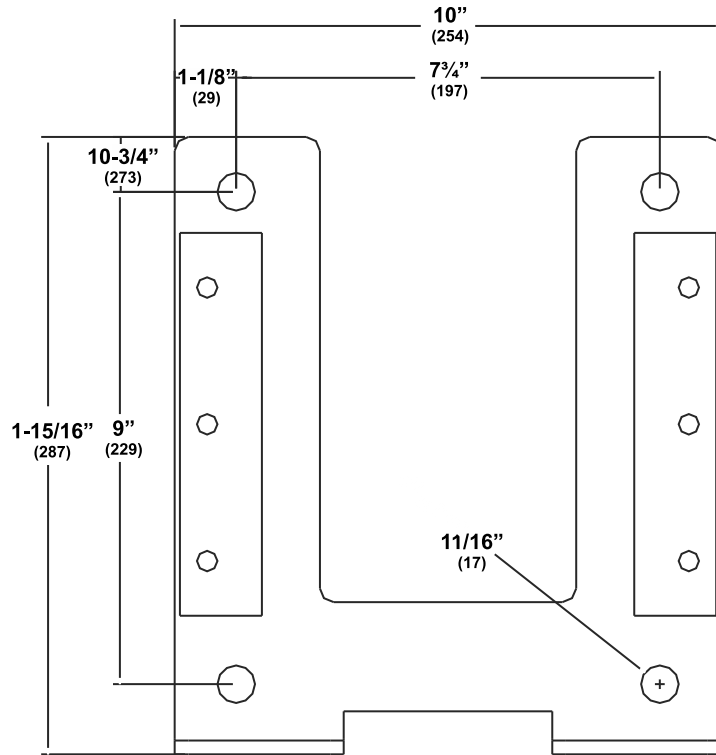


Figure 2. Mounting Bracket Dimensions

- To determine the desired location of the mounting brackets, locate the bottom edge of the belt. Then depending on spatial constraints, then choose between **Push-Up Position** or **Pull-Up Position**.

A. Push-Up Position

The center of the top mounting holes of the Mounting Bracket should be located 2.75" [70mm] below the bottom edge of the belt. *Refer to Figure 3.*

B. Pull-Up Position

The center of the top mounting holes of the Mounting Bracket should be located 2.25" [58mm] below the bottom edge of the belt. *Refer to Figure 3.*

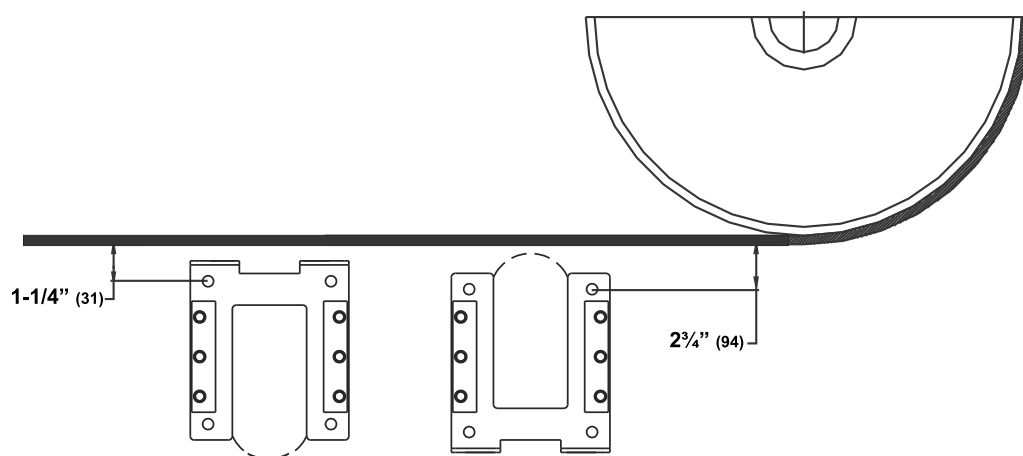


Figure 3. Mounting Bracket Height Locations for Pull-Up & Push-Up Positions

- With the Mounting Bracket held in place, mark the location of the four mounting holes. Then using a 9/16" [14mm] drill bit or a torch, cut the four bolt holes into the conveyor chute or frame work.
- As noted above the Mounting Bracket can also be welded in place. (Note: the Mounting Brackets are a Cast 304 Stainless Steel)

Cutting the Chute Openings

If the brackets are to be mounted to an enclosed chute, an elongated hole will have to be cut into the chute wall to allow the blades and the mounting tube to pass through from one side of the conveyor to the other. See *Fig. 3*.

- The Chute Opening slot should be located flush with the U-Shaped notch in the Mounting Bracket, as shown in *Figure 3*.

Spring-Shoc Tensioner Assembly

Assembly of the Spring-Shoc Tensioner is shown in *Figure 4*. The left image is the Tensioner in Pull-Up Position and the right image is for the Tensioner in Push-Up Position. All the parts are provided to assemble the tensioner in either position.

**Figure 4. Spring-Shoc Tensioner Assembly:
Pull-Up (left) and Push-Up (right) Tensioners**
(see next page)

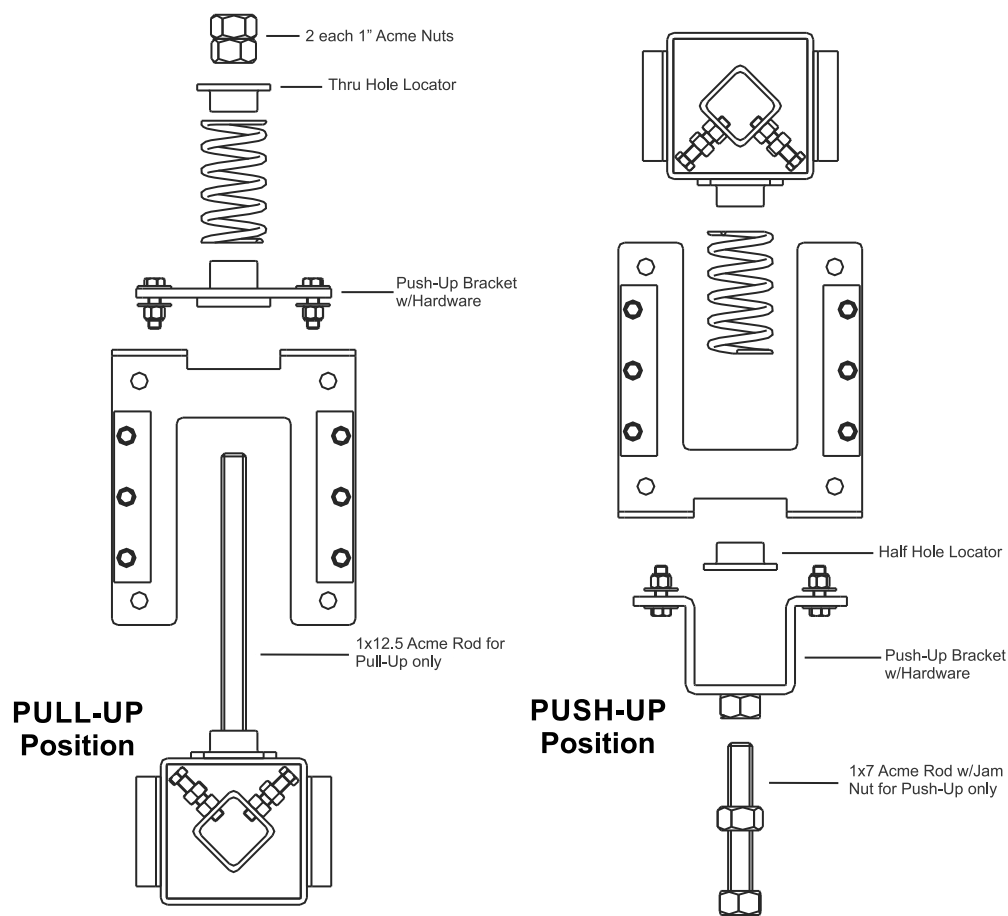


Figure 4. Spring-Shoc Tensioner Assembly: Pull-Up (left) and Push-Up (right) Tensioners

Spring-Shoc Tensioner Mounting & Dry Wipe™ Installation

With the Mounting Brackets attached to each side of the structure, slide the Mounting Tube through the chute openings and into the far-side Slide-Block mounting collar. Then slide the near side Slide-Block in the Mounting Bracket. Now loosely tighten the 4 Square Head Set Screws to hold the Mounting tube from rotating. See Figure 5.

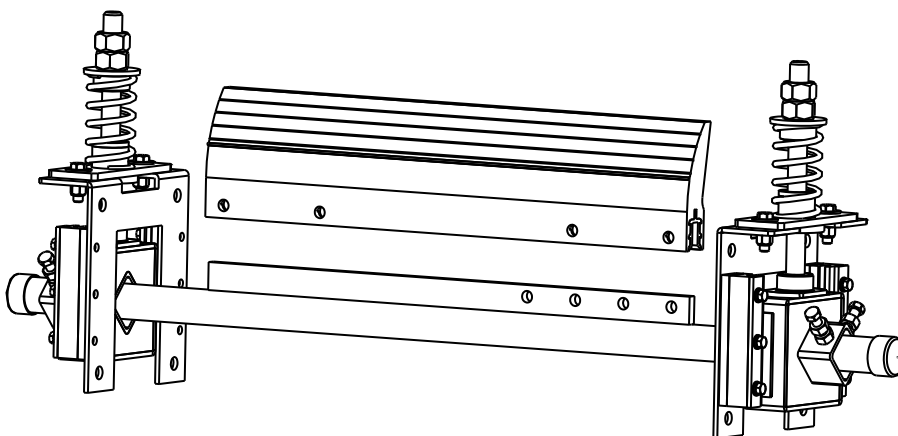


Figure 5. Mounting Bracket with Installed Mounting Tube

With the Mounting Tube in place attach the blade to the keeper on to Mounting Tube. See *Figure 6*.

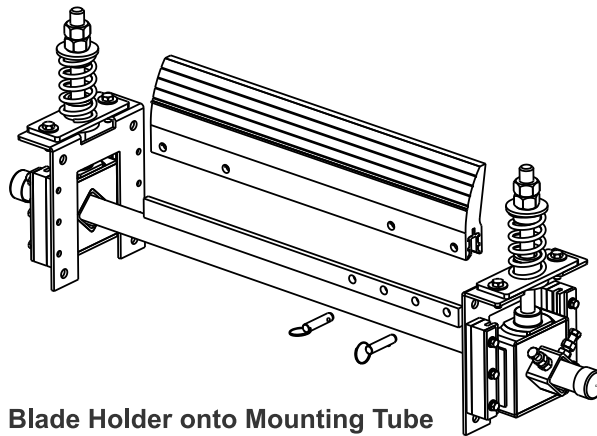


Figure 6. Place Blade Holder onto Mounting Tube

Now pin the blade in two places to secure it to the Mounting Tube. See *Figure 7*.

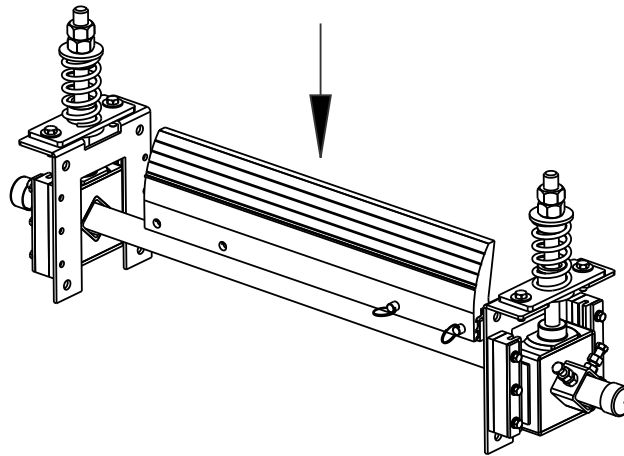


Figure 7. Slide Blade Holder into Position and Insert Locking Pin

Blade Positioning and Alignment

With the Mounting Tube and Blade Holder in position, align the Blade Tips so that they are perpendicular to the belt. Center the blade on the belt by sliding the support tube in the support tube collars. Firmly tighten the Square Head Set Screws (to 65-70 ft-lbs.) on the Slide Block collar to affix the rotation and translation of the Mounting Tube.

Raise the Slide Blocks by evenly turning the adjustment bolts until the blade just contacts the belt. Check that the blade is evenly contacting the belt along the entire length of the blade. Once uniform blade/belt contact has been achieved, evenly raise the Slide Blocks causing the spring to load. Continue to tighten until sufficient upward force (blade pressure) has been achieved see Table 1 below. Spring Height (H) is the suggested tension starting point See *Figure 8*. Firmly tighten the lock nut on the two adjustment bolts. It maybe possible that there is enough play in the belt that there can be enough downward force via belt weight so that compressing the spring may not be necessary.

Table 1. Spring-Shoc Tensioner, Tension Chart

Belt Width	Spring Height (H)	Spring Compression
18	4 3/4 [120mm]	1/4 [6mm]
24	4 11/16 [119mm]	5/16 [7mm]
30	4 5/8 [117mm]	3/8 [9mm]
36	4 9/16 [115mm]	7/16 [11mm]
42	4 1/2 [114mm]	1/2 [12mm]
48	4 11/16 [119mm]	5/16 [7mm]
54	4 5/8 [117mm]	3/8 [9mm]
60	4 9/16 [115mm]	7/16 [11mm]
72	4 1/2 [114mm]	1/2 [12mm]
84	4 7/16 [112mm]	9/16 [14mm]
96	4 3/8 [111mm]	5/8 [15mm]

Note: Belt Widths of 48 inches and above use the Heavy Duty Silver Spring.

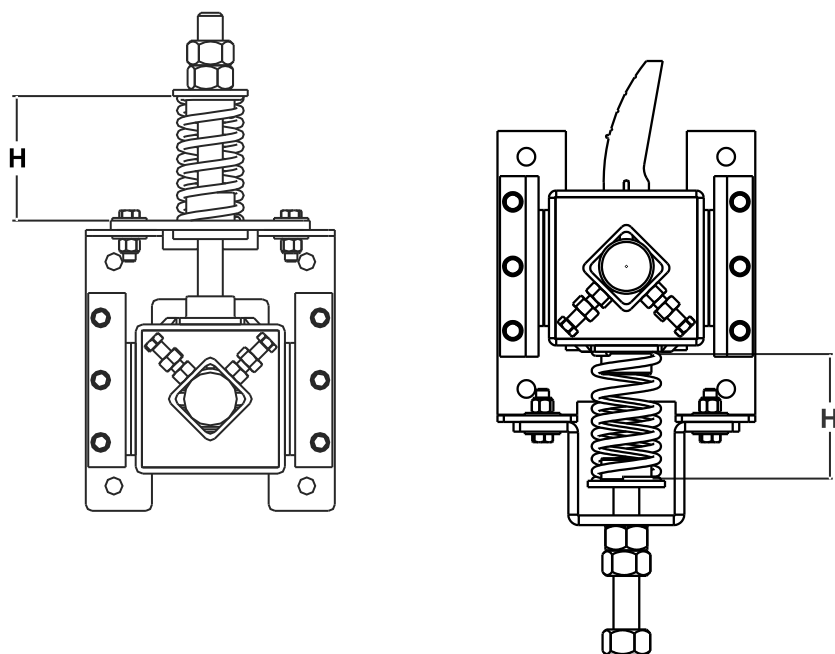


Figure 8. Spring Height (H) Measurement Location

Test run the conveyor.

If chattering or vibration of the blade occurs, try increasing the Spring compression or rotating the Blade Tips slightly in the direction of belt travel (in 5 degree increments). Only in non-reversing applications.

MAINTENANCE

After one day of operation:

- 1.) Inspect the cleaner for proper belt cleaning and operation.

Weekly:

- 1.) Frequent inspection is the key to proper belt cleaning and easy Scraper servicing. Weekly inspections are recommended, but actual service frequency may vary widely depending on various plant operating conditions.
- 2.) Wash the entire cleaner regularly to prevent excessive buildup. If material tends to accumulate on the Scraper Assembly then possible scraper relocation may be in order.
- 3.) Inspect the belt surfaces and edges for cracks, splits, tears, holes or any other worn or damaged condition occurring on the surfaces or edges of the belt itself. If necessary make repairs to the belt.
- 4.) Replace the Skalper scraper blade as required. Use only ASGCO® "Complete Conveyor Solutions" approved replacement blades.

TROUBLESHOOTING

PROBLEM	SOLUTION
<i>Excess vibration of the scraper.</i>	Make certain all bolts are tight.
<i>Excess carryback.</i>	<p>Check for proper Scraper tension. Put additional tension on cleaner.</p> <p><i>Check for wear on the cleaning tips.</i></p> <p>Check thickness of carryback. If the cleaner must remove more than about 1/8" of material then a precleaner may be needed.</p>
<i>Excess belt movement, cupping</i>	Install a hold down roller to stabilize the belt surface.
<i>Unable to tension scraper properly, belt moves away from blades.</i>	Install a hold down roller to reduce sag of the belt when tensioning.
<i>Frozen material on scraper.</i>	Place heaters near scraper to melt frozen material. (Use caution not to burn belt or

Information

Key	Description	Part Number
1	Mounting Tube	ASG-SKMT-(BW) [BW] = Belt Width
2	TORO Blade Holder	ASG-RBBH-(BW)
3	Dry Wipe Blade	SBB-ASG-(BW)
4	Spring-Shoc Tensioner	
	12" - 42" Belt Width	M-ASG-RB-ST-SEC-1242
	48" - 84" Belt Width	M-ASG-RB-ST-SEC-4896
	Locking Pin	ASG-SSKMT-CL

Call your ASGCO Distributor for any questions or replacement parts

