



SUPER-G XL™

Conveyor Belt Cleaning System



⚠️ WARNING

Always obey all applicable safety rules.

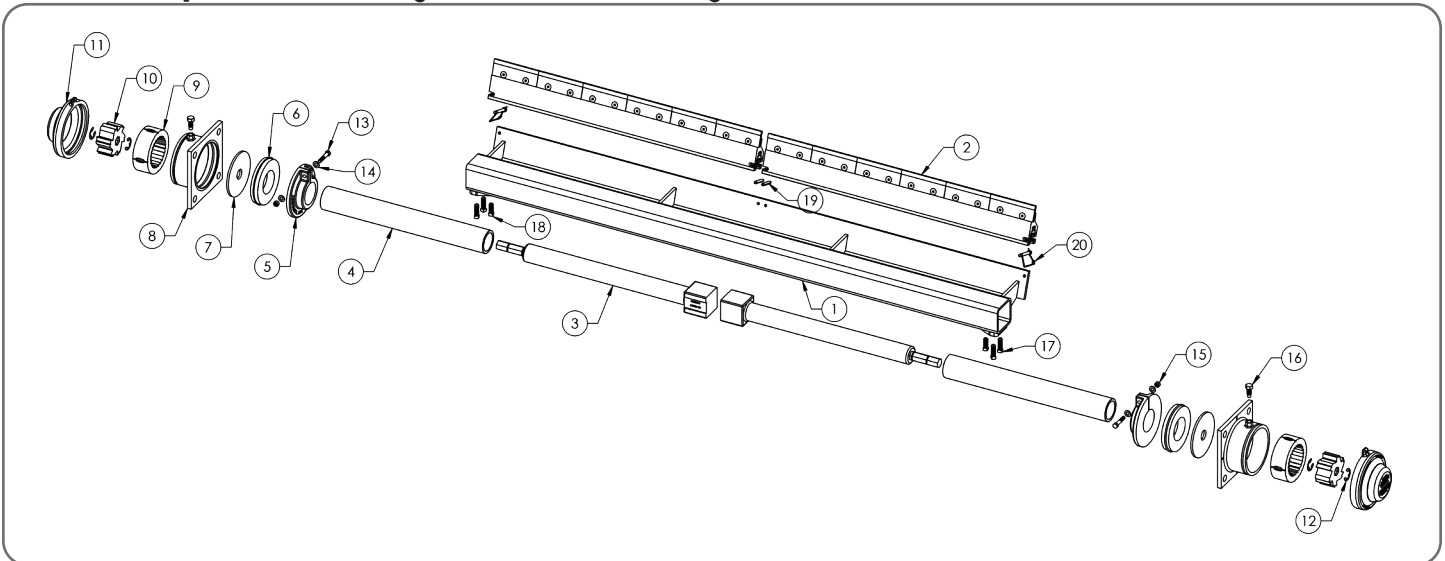
Be sure all power to the conveyor has been disconnected and controls are locked out.

Installation Tools Required

- Tape measure
- Cutting Torch or Hole Saw (4 1/2")
- Level
- Scribe or Chalk
- Welder or Drill
- 1/2" End Wrench
- 1 1/4" End Wrench or Crescent Wrench

Bolts, lock washers and nuts for mounting are not supplied

Safe Torque Ratchet System - Assembly Breakdown



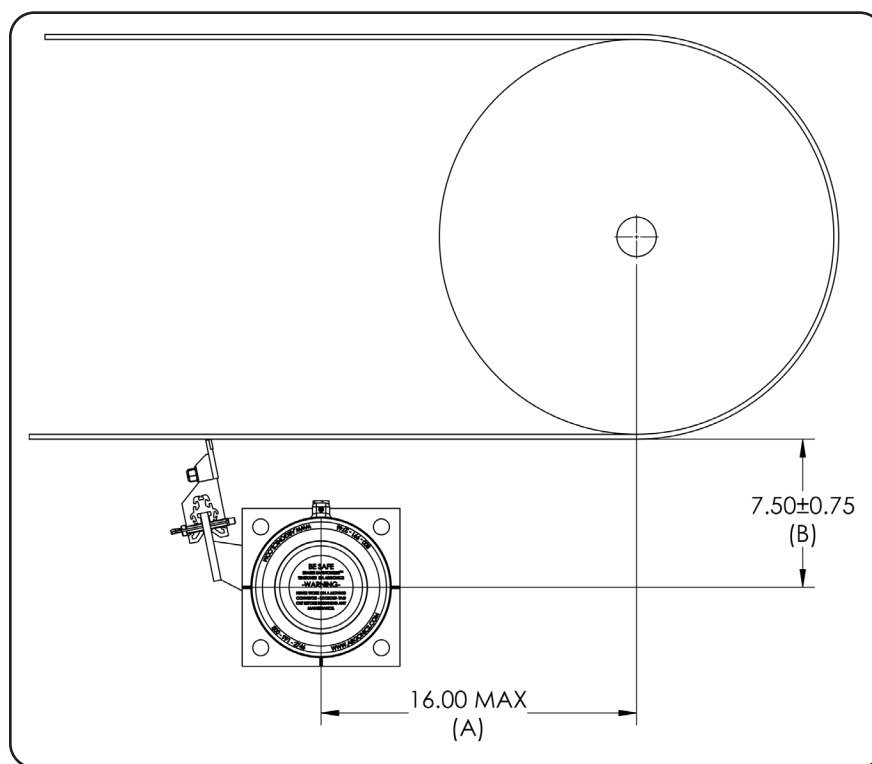
Number	Part Number	Quantity	Description
1	CP-SGXL-"XX" A	1	Mainframe
2	CP-SG2-B"XX"-G83T	2	Tungsten Blade
3	CP-SE2-P2075-E-B93	2	SE2 Tensioner
4	CP-SE2-P22B	2	SE2 Stub End
5	CP-SE2-PLC65-G83	2	SE2 Locking Collar
6	CP-SE2-P33-RT-B93	2	SE2 Inner Snap Seal
7	CP-SE2-P56F	2	SE2 Ratchet Spool Washer
8	CP-SE2-P33R	2	SE2 Ratchet Mounting Spool
9	CP-SE2-P52C-G83	2	SE2 Outer Catch
10	CP-SE2-P42C-G83	2	SE2 Inner Ratchet Catch
11	CP-SE2-P75B-Y83	2	SE2 Dust Cap
12	CP-AR-98407A156	2	Retaining Ring
13	BOLT-0.38X1.75NC-ZC	2	Bolt, 0.375"-16 NC, Zinc-Plated 1.75" Long
14	WASH-0.38-F-SAE-ZINC	4	Washer, SAE .375", Zinc-Plated
15	NUT-016	2	Nut, 0.375"-16 NC, Zinc-Plated
16	CP-AR-512540	2	Bolt, 0.5"-13 NC, Zinc-Plated 1.25" Long
17	CP-AR-5150S	4	Stainless Hex Head Set Screw 1/2" x 1-1/2"
18	CP-AR-5125S	2	Stainless Hex Set Screw, 1/2" x 1-1/4"
19	CP-AR-303	2	Spring Pin 0.5"-UNC X .75" Lg Zinc
20	CP-AR-275	2	Safety Snap Pin .375"X2.25"

Note:

This Super-G XL Secondary belt cleaning system is designed to be used on conveyor pulleys of 14" in diameter and larger.

Step One: Calculations

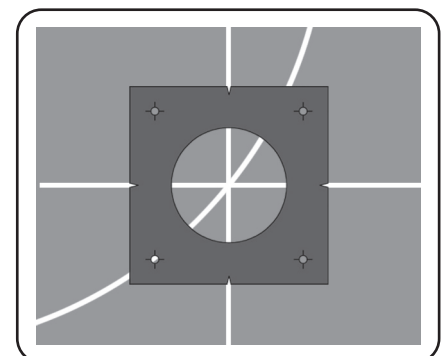
Place a level across the width of the belt where the belt leaves the head pulley (L1) and make a mark on each side of the mounting structure wall. Repeat this process within the 16" maximum mounting area (A) shown in the illustration below. This will be your L2 mark. Now measure perpendicular to the belt 7½" (B) down from your marks and scribe a line between these two points. **This line should be parallel with the belt and 7½" +/- ¼" down.** The Super-G XL system can be mounted anywhere along this line. Make sure that both sides of the mounting structure wall are marked exactly the same. If no structure is available at this location, a mounting structure will need to be added. The ideal location is directly below and perpendicular to the pulley shafts center (see illustration).



You are only allowed to deviate ¼" on the "B" dimension.

Step Two: Layout

After you have determined the mounting location for your belt cleaning system, align the template (see last page of this guide) with your bisected horizontal and vertical lines on the mounting structure wall and transfer the center hole, bolt holes and perimeter of the template to the chute wall using your scribe.



Repeat the layout procedure on the opposite mounting structure.

INSTALLATION - Dual Tensioner

Step Three: Mounting systems equipped with a dual tensioner

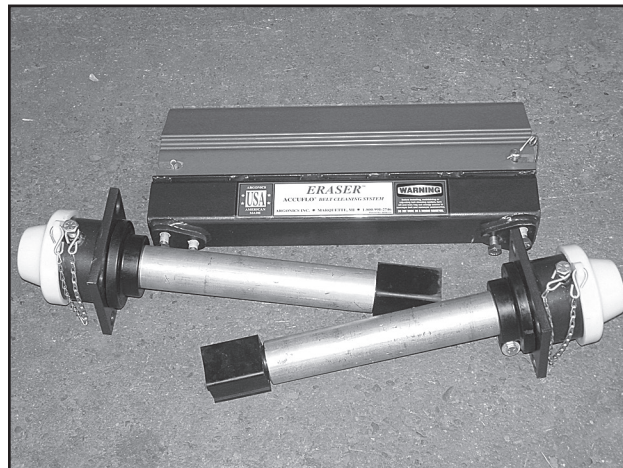
Cut the tensioner holes which were scribed on the mounting structure (your finished holes should be approx. 4 1/2" in diameter).

NOTES:

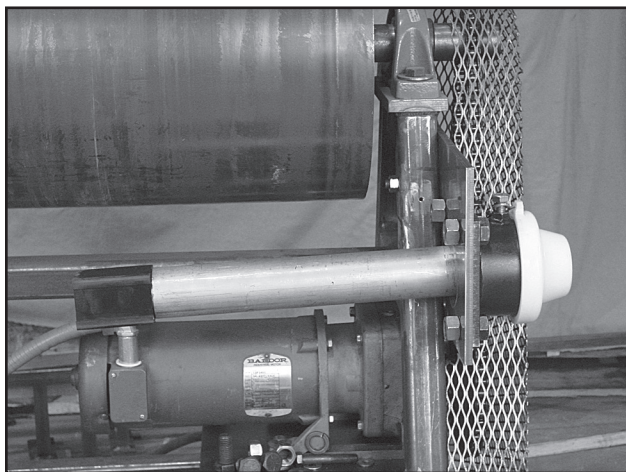
- For Bolt In Only - Using the bolt circles that you scribed as a guide, drill four 13/16" diameter holes to accept 3/4" diameter grade 8 bolts per mounting spool.



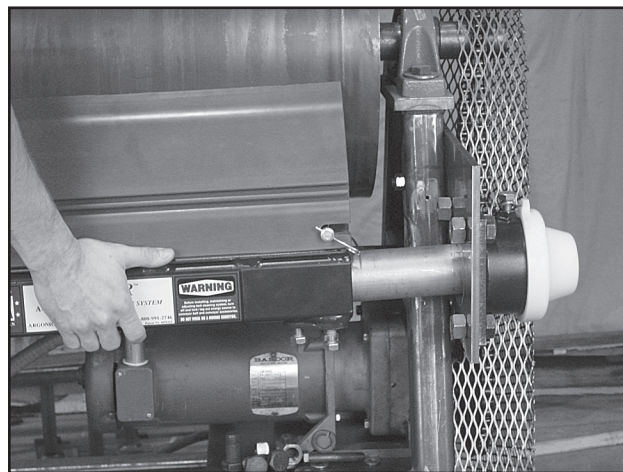
Remove the urethane locking collars from the stub ends.



Remove both tension cartridges from the mainframe.

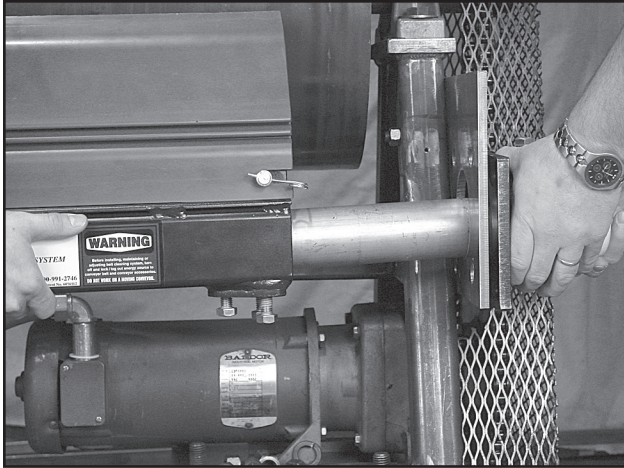


If there is room, slide the first tensioner cartridge through the chute wall and line up the mounting spool with the template that was transferred to the chute wall. Now bolt or weld into place.

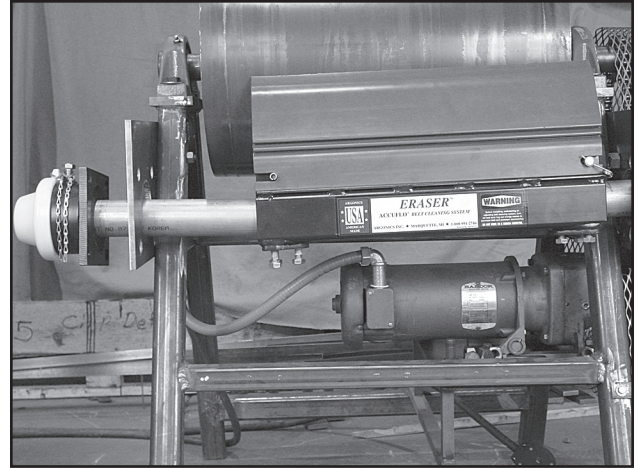


Lift the mainframe into position. Slide the mainframe onto the cartridge, then temporarily retighten the three setscrews on the tensioner side to stabilize system.

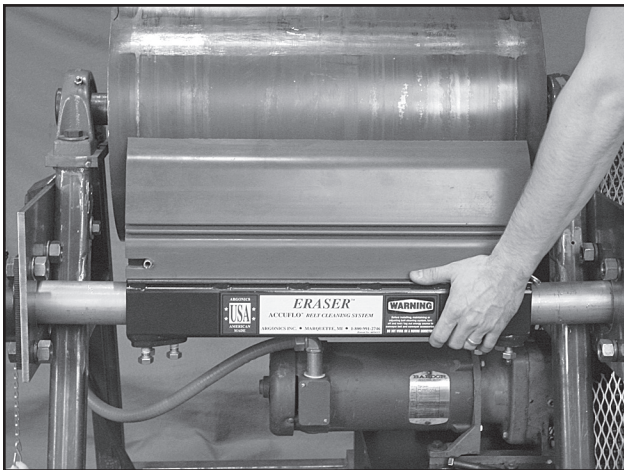
INSTALLATION - Dual Tensioner



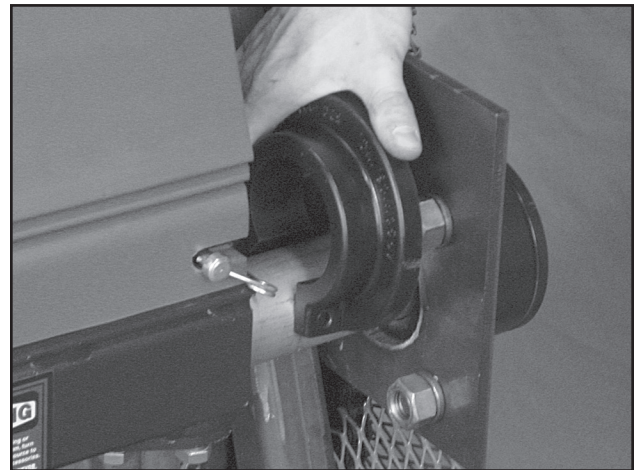
If there is not a lot of room between the chute walls, hold the mainframe in place and slide the tension cartridge into the mainframe. Bolt or weld the mounting spool into position and tighten the setscrews.



Slide the second tensioner cartridge through the chute wall and insert into mainframe. Temporarily retighten the setscrew on tensioner side to stabilize system. Bolt or stitch weld the mounting spool on the tensioner cartridge to the chute wall.



Loosen the setscrews and center the mainframe and blade to the belt. Tighten the setscrews to secure the stub ends.



Install the urethane locking collars by sliding them over the stub end, snugging them to the chute wall. Tighten the bolts to secure.

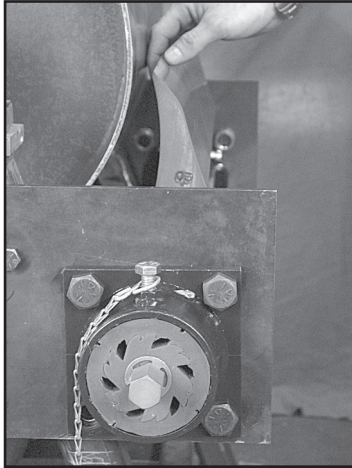
IMPORTANT

At the top point of the mounting spool, the inner ratchet catch must always point away from the load pulley.

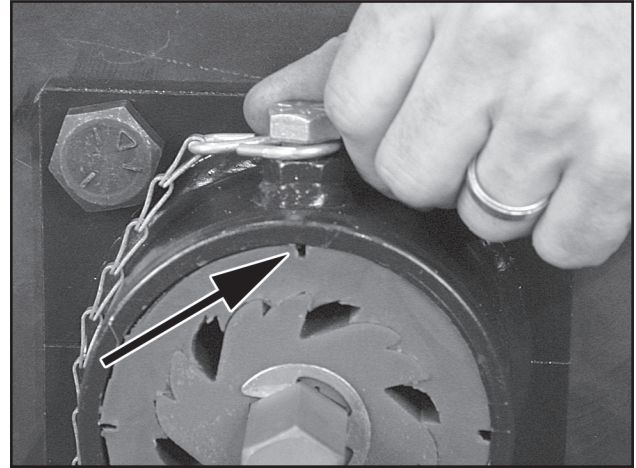
INSTALLATION - Tensioning

Step Four: Tensioning

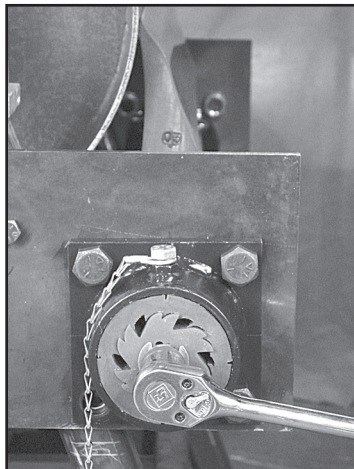
The Super-G XL system is equipped with our patented internal Perma-Torque tensioner and our Safe Torque ratchet system. The Perma-Torque is an adjustable elastomeric tensioner. The tensioner may be adjusted from a recommended minimum of 20 foot-pounds of force to a maximum of 80 foot-pounds. Exceeding tensioning of 24 clicks or 480° of rotation could damage the tensioner as well as the Safe Torque ratchet system. Four (4) clicks, or 90° of rotation is recommended for most applications.



To tension, first position the alignment notch on the outer ratchet catch with the mounting spool set screw. Grab the blade and rotate to align the ratchet notch.



When notch is aligned, tighten the setscrew. (Arrow indicates proper notch position.)



Use a 1" socket wrench on the exposed tensioner hex rod and turn the tensioner up and towards the pulley until the blade makes contact with the belt. Start tensioning by counting the clicks until you have reached the desired rotation. Four (4) clicks or 90° of rotation is the factory recommended setting. Repeat the same number of clicks on the opposite side for a dual tensioner system. Re-attach the dust cap(s).

Guideline for tensioning belt cleaning systems				
Blade width (mm)	Blade width (in)	No. of clicks	Lbs of force	
250-700	10-26	4	50	Single Tensioner
725-1150	28-44	5	60	
1175-1750	46-68	4	50	Dual Tensioner
1775-2700	70-106	5	60	
2725-3000	108-120	6	70	

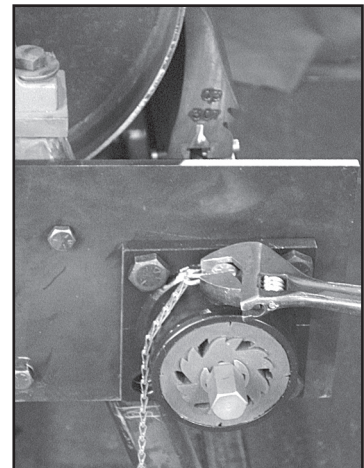
Do Not Overtension

Overtensioning will result in increased blade wear



←
WATCH THE TENSIONING VIDEO

Releasing Tension

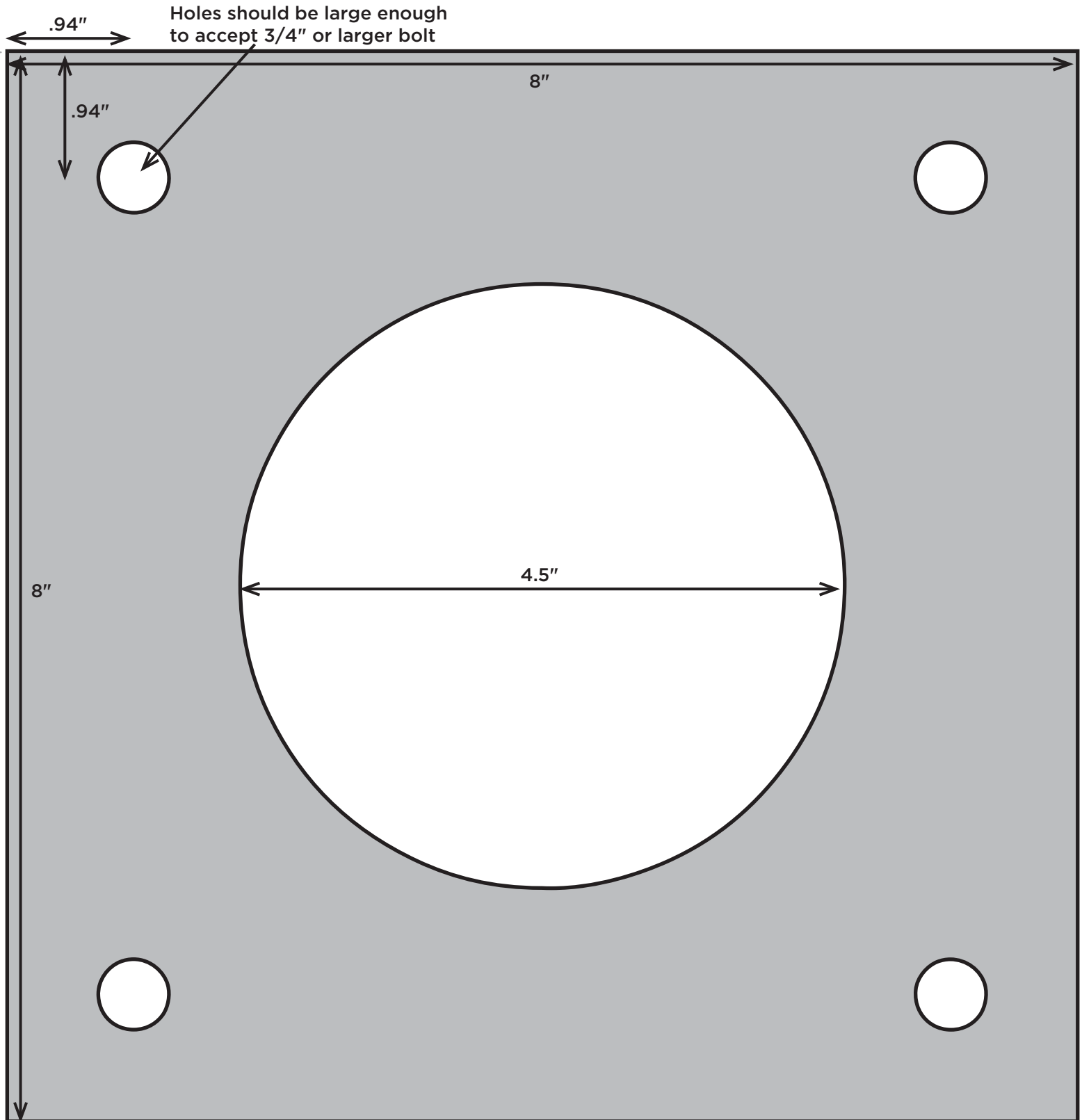


When you need to release tension, just loosen the mounting spool set screw. You will see the outer ratchet rotate as the tension is released.

Installation of your Argonics Super-G XL belt cleaning system is now complete. Maintenance or re-tensioning should not be required throughout the life of the blade.

MOUNTING TEMPLATE

Transfer the drawing below to cardboard, and use as your mounting spool template.



Template is drawn to actual size.

REPLACING TUNGSTEN BLADES

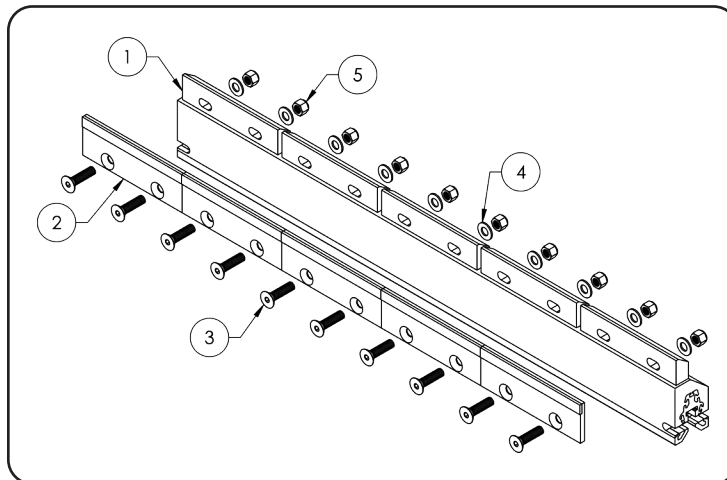
⚠ WARNING

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Installation Tools Required

- 7/32" Allen Wrench
- 9/16" Wrench
- 1" End Wrench or Crescent Wrench

The tungsten blade features individual 6" long tungsten blades. Those blades allow you to replace just the tungsten blade tips (item #2), rather than the entire urethane holder.



Number	Part Number	Quantity	Description
1	CP-XH-B"XX"-G83	1	Tungsten Blade - Urethane Holder
2	CP-TH-B06A-T	varies	Replaceable Tungsten Blade Tip
3	CP-SG-288Z	varies	Flat Head Screw, 3/8-16X1.5", Zinc
4	WASH-0.38-F-SAE-ZINC	varies	Washer, 3/8 Flat, Zinc
5	NUT-013	varies	Nylon Locking Nut 3/8"-16 UNC Zinc

Step One: Release tension and remove blade

Using the 1" wrench, apply tension to the tensioner to hold it in place. Loosen the mounting spool set screw and slowly guide the outer ratchet back with the wrench to release the tension. Then remove the urethane holder from the cleaner assembly by releasing the snap pin.

Step Two: Remove metal tips and replace with new

Remove the nuts, screws and washers attaching the tungsten tips to the urethane holder. Using the same hardware, replace the tungsten tips, ensuring that the tops of the tips are even.

Step Three: Round off corner of outside blades

The outside corners of the endmost blade sections need to be rounded off to ensure that they don't cut into the belt. We recommend using a diamond grinding disc or wheel.

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