

# SUPER ERASER™

## Conveyor Belt Cleaning System



Patent Pending



**ARGONICS**  
ENGINEERED POLYURETHANE

# SUPER ERASER™

## Conveyor Belt Cleaning System

### ⚠ WARNING ⚠

Always obey all applicable safety rules.

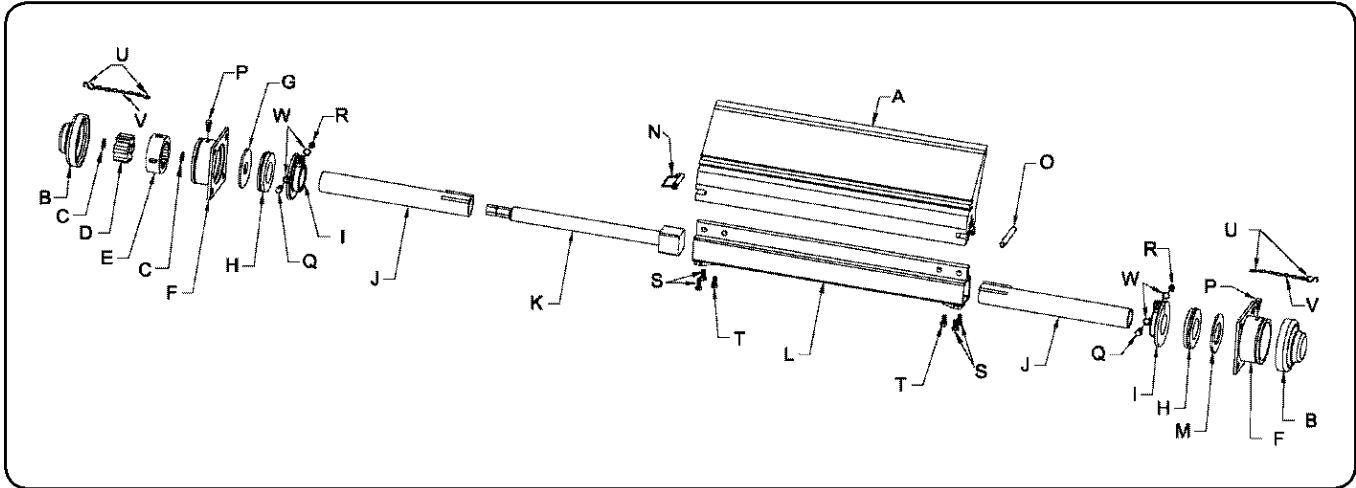
Be sure all power to the conveyor has been disconnected and controls are locked out.

### Installation Tools Required

- Tape measure
- Cutting Torch or Hole Saw (4")
- Level
- Scribe or Chalk
- Welder or Drill
- ½" End Wrench
- 1¼" End Wrench or Crescent Wrench

**Bolts, lockwashers and nuts for mounting are not supplied.**

### Safe Torque Ratchet System - Assembly Breakdown



Letter	Part	Quantity	Description
A	CP-RED-"XX"-G83	1	Raptor Blade
B	CP-SE-75B-Y83	2	Standard Dust Cap
C*	CP-SE-PO125STPA	2	Retaining Ring
D*	CP-SE-42C-G83	1	Standard Inner Ratchet Catch
E*	CP-SE-52C-G83	1	Standard Outer Ratchet Catch
F	CP-SE-33R	2	Standard Ratchet Mounting Spool
G*	CP-SE-56F	1	Standard Ratchet Spool Washer
H	CP-SE-33-RT-B93	2	Standard Inner Snap Seal
I	CP-SE-LC65-G83	2	Standard Locking Collar
J	CP-SE-22B	2	Stub End
K*	CP-SE-2500E-B93	1	1.25" Perma-Torque Tensioner
L	CP-SE-"XX"A	1	Mainframe
M	CP-SE-56F-ST	1	Std. Rat. Spool Washer - Single Tensioner
N	CP-SE-550	1	Safety Snap Pin .63" x 5.5"
O	CP-AR-505	1	Spring Pin .75" x 4.25"
P	CP-SE-515040	2	Bolt, 0.5"-13 NC, Zinc-Plated 1.50" Long
Q	BOLT-0.38X1.75NC-ZC	2	Bolt, 0.375"-16 NC, Zinc-Plated 1.75" Long
R	NUT-0.38-16NC-ZINC	2	Nut, 0.375"-16 NC, Zinc-Plated
S	CP-AR-5150S	4	Stainless Hex Head Set Screw .5" x 1.50"
T	CP-AR-5125S	2	Stainless Hex Set Screw, .5" x 1.25"
U	CP-AR-45305	4	S-Hooks, Size 10, Zinc-Plated
V	CP-AR-3607t24-18	2	Sash Chain, Size 8, Zinc-Plated - 18"
W	WASH-.038-F-SAE-ZINC	4	Washer, SAE .375", Zinc-Plated

\* Systems 34" and above come standard with dual tensioners and require double of each of the noted parts.

# INSTALLATION

**Note:**

This Super Eraser Primary Belt Cleaning System is designed to be used on conveyor pulleys of 23" in diameter and larger. Using this system on a pulley smaller than the recommended size stated above will not provide proper cleaning of your conveyor system.

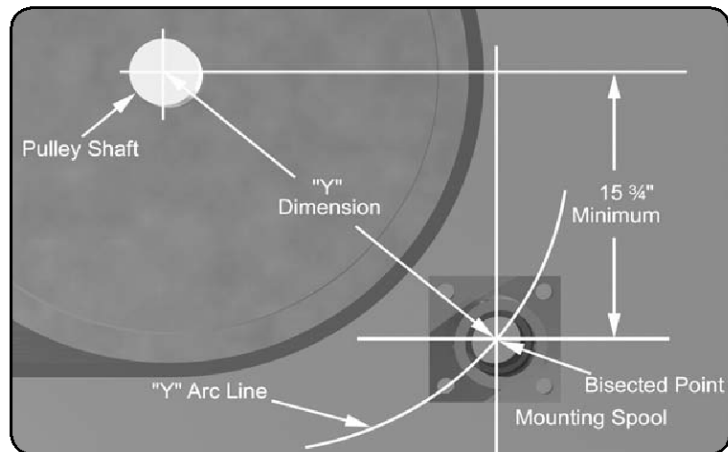
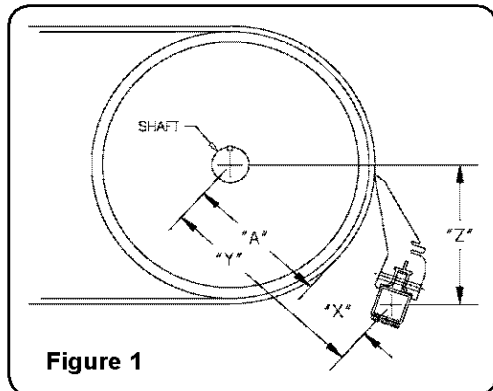
**Step One: Calculations**

Measure the distance from the center of your pulley shaft to the outside surface of your conveyor belt. This will be your outside radius ("A" on figure 1). Find your outside radius on the dimension table to the left. Add the corresponding "X" dimension to your outside radius. (Example: 14" radius + 8" = 22"). This is your "Y" dimension (Y = 22"). The illustrated "Z" dimension is a minimum value and provides for the optimum mounting position.

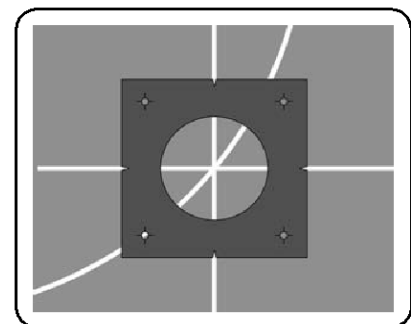
Dimension Table - Table 1		
Outside Radius	X	Z
11½" - 12½"	8½"	15¾"
13" - 14"	8"	15¾"
14½" - 15½"	7½"	15¾"
16" - 17½"	7"	15¾"
18" - 20"	6½"	15¾"
20½" - 22½"	6"	15¾"
23" - 24½"	5¾"	15¾"
25" & Larger	5½"	15¾"

**Step Two: Layout**

From the center of the pulley shaft, scribe an arc (equal to your "Y" dimension) on the outside of the mounting structure wall. Then measure down from the center of the pulley shaft using the "Z" dimension, and using a level, scribe a horizontal line across the mounting structure that intersects the arc at "Y." Now draw a vertical line approximately 8" long which bisects the horizontal line at the intersection. This bisected point will be the center point of the mounting spool location. If no structure is available at this point, a mounting structure will need to be added.



After you have determined the mounting location for your belt cleaning system, align the supplied template (found on page 11 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.  
For single tensioner, follow instructions on page 4. For dual tensioner, turn to page 6.

## INSTALLATION - Single Tensioner

### Step Three (A): Mounting systems equipped with a single tensioner

Cut the tensioner hole which was scribed on the mounting structure (your finished hole should be approx. 4 $\frac{3}{8}$ " in diameter).

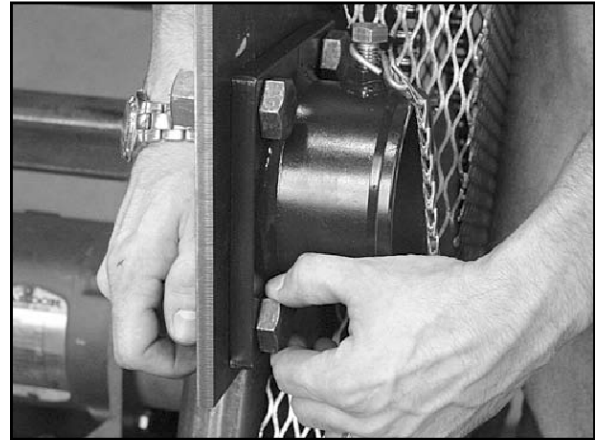
#### NOTES:

- For Bolt In Only - Using the bolt circles that you scribed as a guide, drill four 1 $\frac{3}{16}$ " diameter holes to accept 3/4" diameter grade 8 bolts.

*Single tensioner Super Eraser systems are shipped with the tensioner on the left side. If you need to mount your tensioner on the right side please refer to tensioner assembly instructions on page 9.*



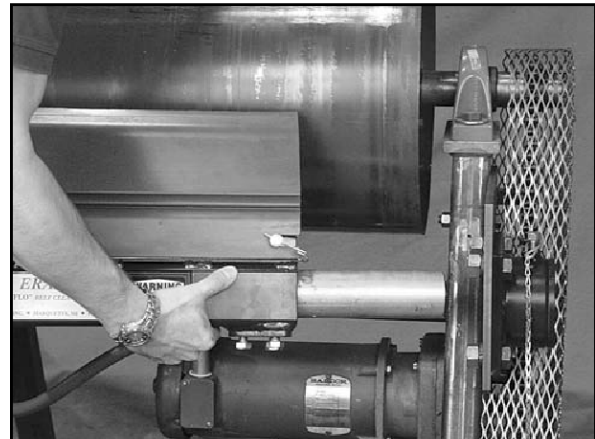
Remove the urethane locking collars from the stub ends.



Remove the mounting spool from the non-tensioner side of the system. Line up the spool with the holes in the chute wall, then bolt it into place using four 3/4" grade 8 bolts and lock washers. You can also choose to stitch weld on the flat sides of the mounting spool.

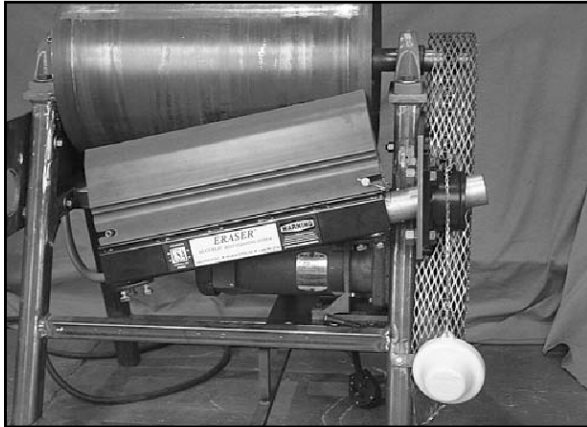


Using a 1/2" end wrench, loosen the three setscrews located on the bottom of each end of the mainframe. Remove the entire tension cartridge from the left side of the mainframe.

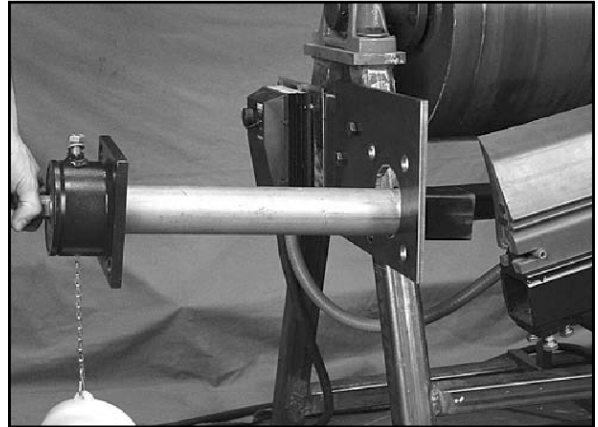


Lift the mainframe into position. Insert the stub end into the mounting spool on the non-tensioner side.

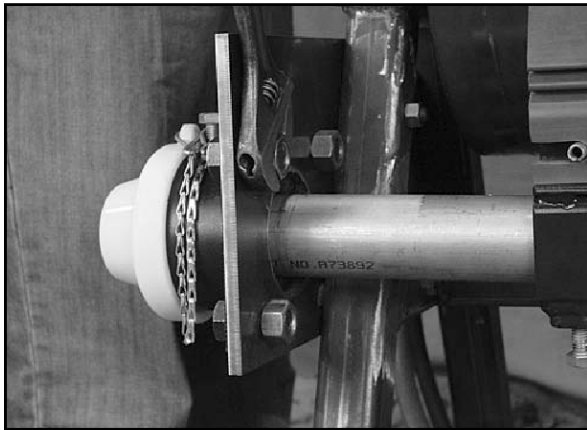
## INSTALLATION - Single Tensioner



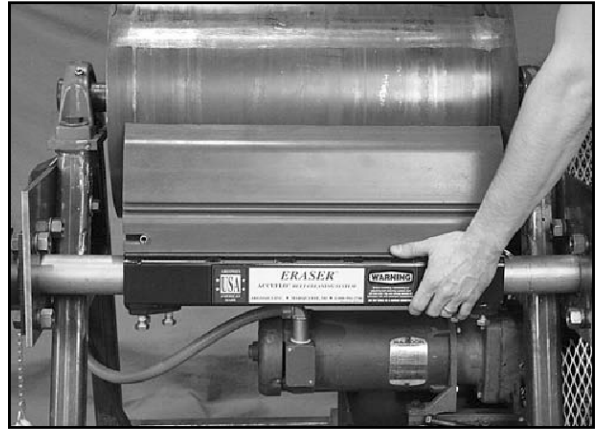
Temporarily retighten the three setscrews to hold the mainframe in place. Then carefully lower to let system hang in place.



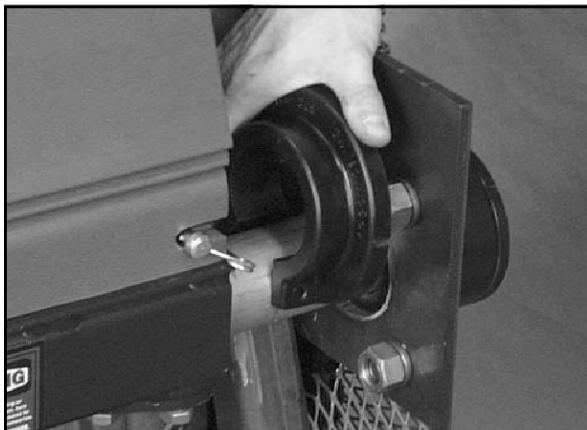
On the other side of the chute, slide the tensioner cartridge through the chute wall and insert it into the mainframe.



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.

PROCEED TO  
TENSIONING INSTRUCTIONS  
ON PAGE 8

## INSTALLATION - Dual Tensioner

### Step Three (B): 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 $\frac{3}{8}$ " in diameter).

#### NOTES:

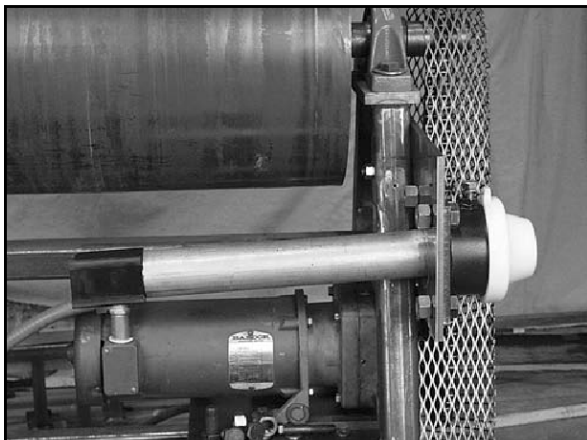
- For Bolt In Only - Using the bolt circles that you scribed as a guide, drill four 1 $\frac{3}{16}$ " diameter holes to accept 3/4" diameter grade 8 bolts per mounting spool.



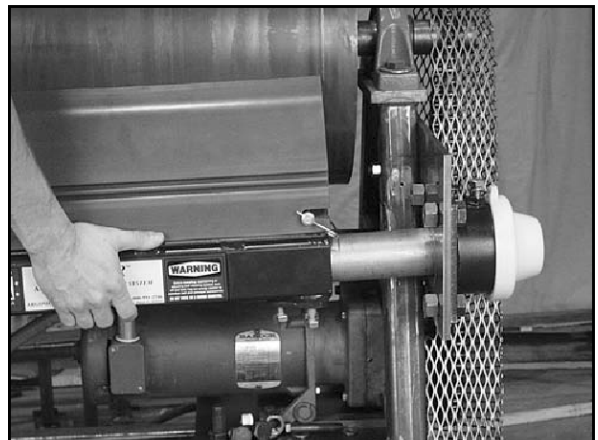
Remove the urethane locking collars from the stub ends.



Remove both tension cartridges from the mainframe.

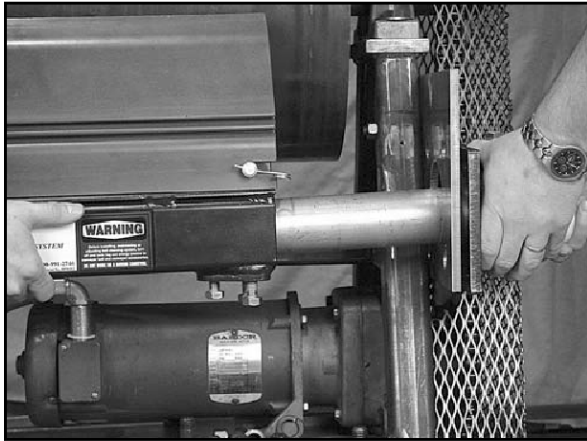


If there is room, slide the first tensioner cartridge through the chute wall and line up the mounting spool with the template that was transferred to the chute wall. Now bolt or weld into place.

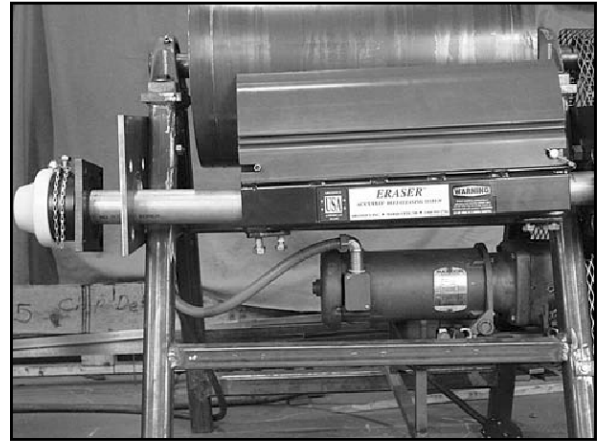


Lift the mainframe into position. Slide the mainframe onto the cartridge, then temporarily retighten the three setscrews on the tensioner side to stabilize system.

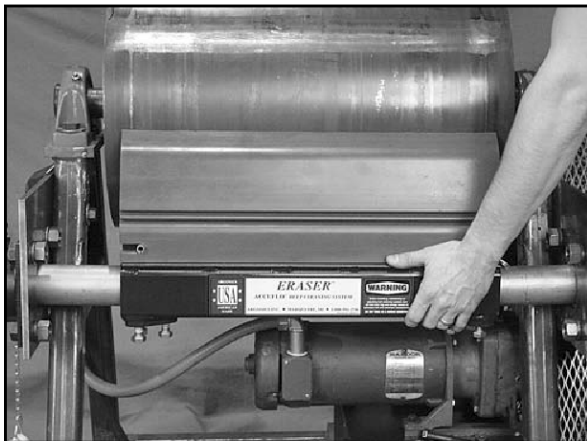
## INSTALLATION - Dual Tensioner



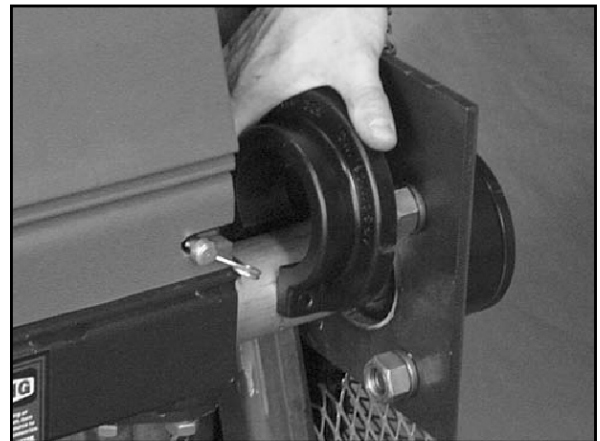
If there is not a lot of room between the chute walls, hold the mainframe in place and slide the tension cartridge into the mainframe. Bolt or weld the mounting spool into position and tighten the setscrews.



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

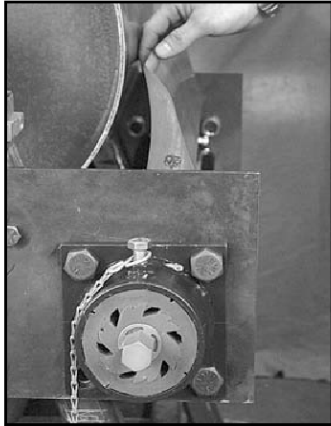
**At the top point of the mounting spool, the inner ratchet catch must always point away from the load pulley.**

PROCEED TO TENSIONING INSTRUCTIONS ON PAGE 8

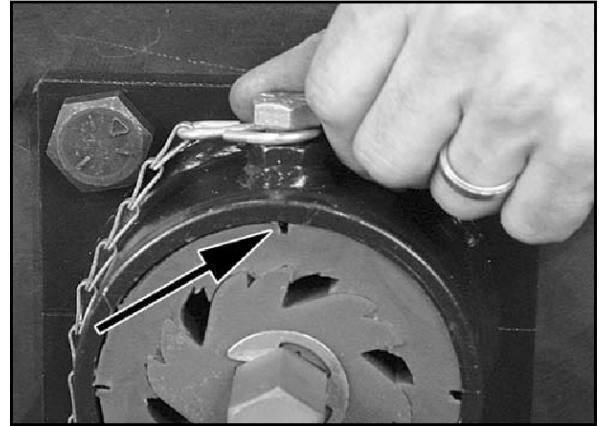
# INSTALLATION - Tensioning

## Step Four: Tensioning

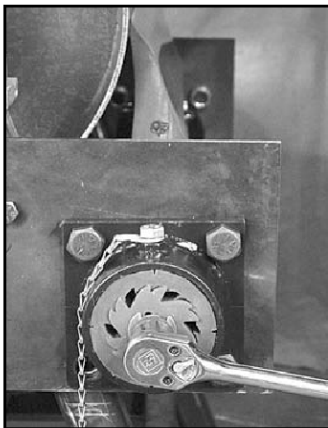
The Super Eraser system is equipped with our patented internal Perma-Torque tensioner and our Safe Torque ratchet system. The Perma-Torque is an adjustable elastomeric tensioner. The tensioner may be adjusted from a recommended minimum of 40 foot-pounds of force to a maximum of 160 foot-pounds. Exceeding tensioning of 24 clicks or 360° of rotation could damage the tensioner as well as the Safe Torque ratchet system. Ten (10) clicks, or 150° 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)

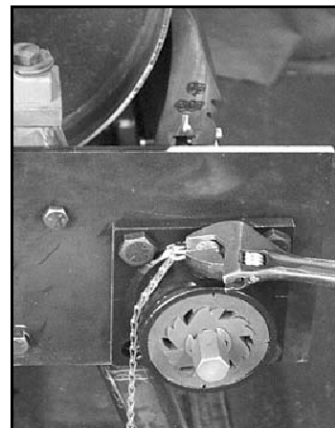


Use a 1 1/4" socket wrench on the exposed tensioner hex rod and turn the tensioner up and towards the pulley until the blade makes contact with the belt. Start tensioning by counting the clicks until you have reached the desired rotation. Ten (10) clicks or 150° of rotation is the factory recommended setting. Repeat the same number of clicks on the opposite side for a dual tensioner system. Re-attach the dust cap(s).

Tensioning Guide		
# of clicks	Degrees	ft-lbs
6	90°	40
8	120°	53
10	150°*	67
12	180°	80
16	240°	107
20	300°	133
24	360°	160

**Do Not Overtension**  
\*150° is our standard which is recommended for most applications.

## 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 Eraser Belt Cleaning system is now complete. Maintenance or re-tensioning should not be required throughout the life of the blade.**



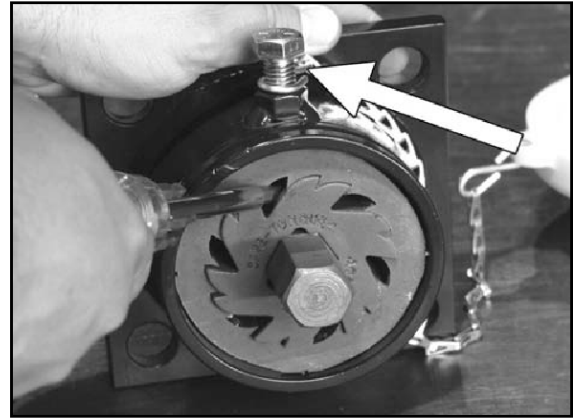
# INSTALLATION - Left to Right Tensioner Conversion

## Tensioner Conversion Instructions

To mount a single tensioned Super Eraser system with the tensioner on the right side instead of the left side, you will need to switch the entire tensioning spool to the other side of the mainframe, as well as the direction that the ratchet gears are oriented. It is recommended that you perform this conversion on the ground before the system is mounted.



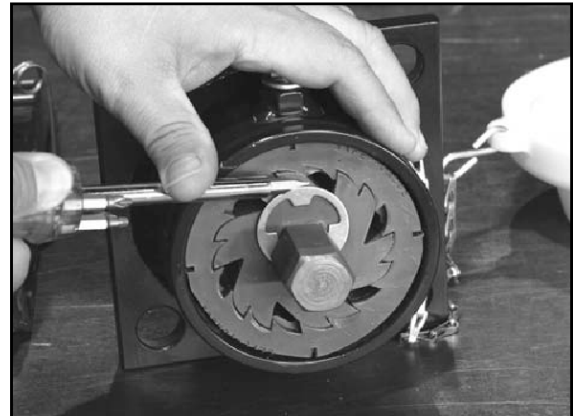
Remove the retainer clip from the hex rod using a flat blade screwdriver. Be sure not to lose the retainer clip.



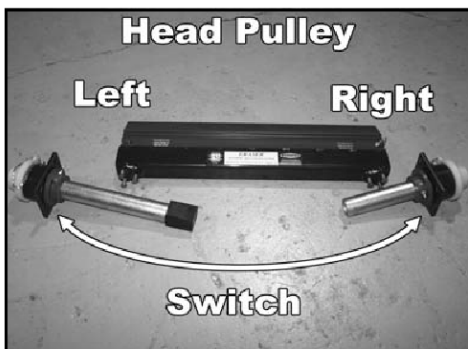
Unscrew the setscrew at the top of the mounting spool and remove both the inner ratchet and outer catch. Make sure you note what direction the gears are pointing.



Flip both the inner ratchet and outer catch so the gear teeth are pointed in the opposite direction and slide both back onto the hex rod.



Align the outer catch notch to the top of the mounting spool, tighten the set screw and then re-insert the retaining clip to the outer groove of the hex rod.



Your Super Eraser system comes with the tensioner mounted on the left. You will need to switch the entire mounting spool assembly to the right side of the mainframe.

### IMPORTANT

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

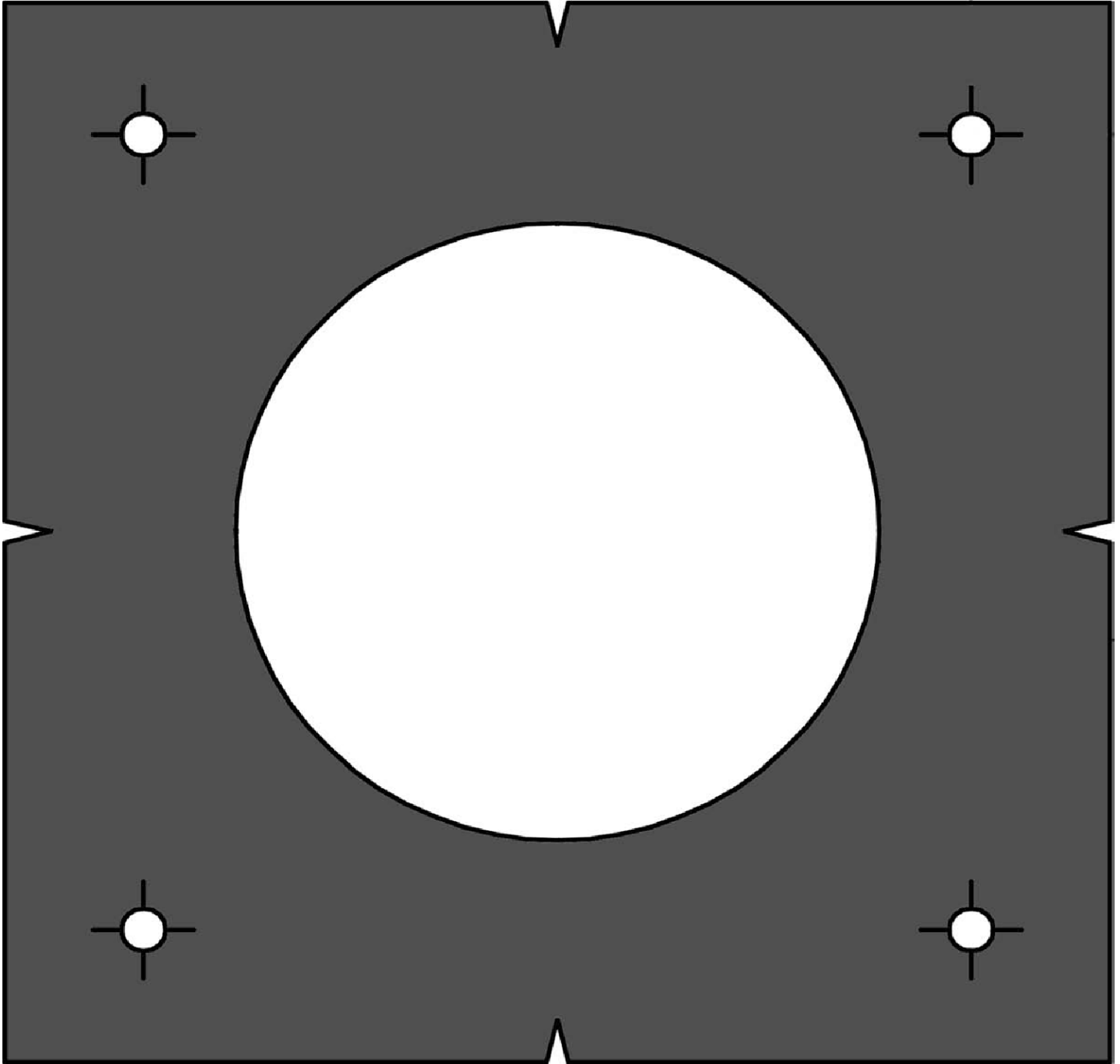
Continue following the installation instructions

## NOTES



## Mounting Template

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



Template is drawn to actual size.

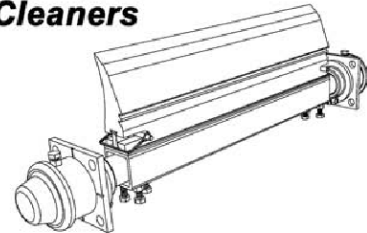
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