Exterra® Primary Belt Cleaner

Read and understand equipment operators manual before operating or performing maintenance. Failure to do so could result in serious injury or death.

Safety Information

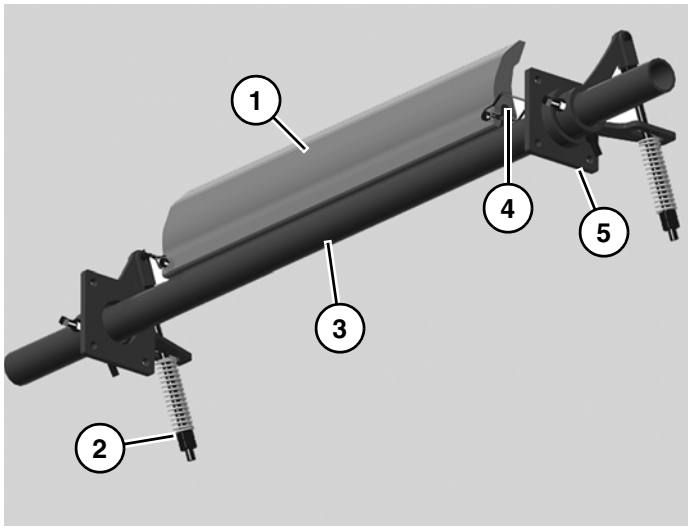
⚠ WARNING

Heed to following warnings. Failure to do so could result in death or serious injury.

- Lockout/Tagout/Blockout before performing maintenance or installation.

Product Overview

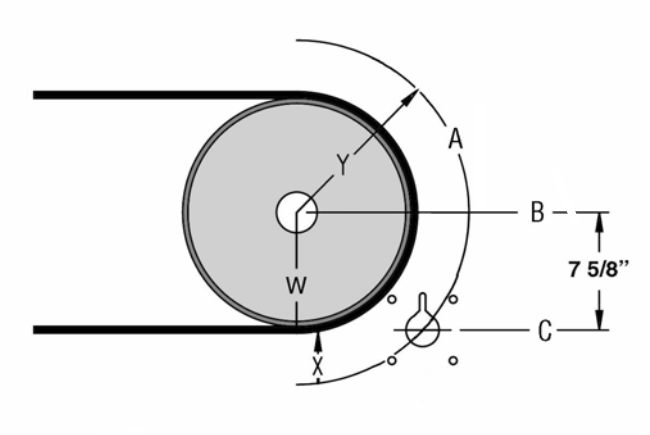
Figure 1



1. Blade (patent D594,623 U.S. / 126,564 Canada)
2. Tensioner (two shown)
3. Shaft
4. Pin Clip
5. Shaft Mounting Bracket

Installing Belt Cleaner

Figure 2



1. Measure distance from center of pulley shaft to outside belt surface “W”.
2. Add “X” value from chart to “W” measurement to determine “Y” distance.

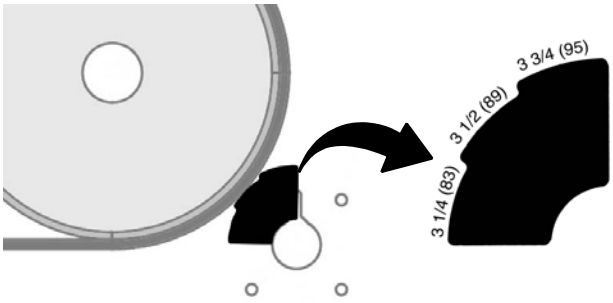
Pulley Radius (“W”)* - inch (mm)	“X” - inch (mm)
8 (203)	3 3/4 (95)
10 (254)	3 1/2 (89)
12 (305) and larger	3 1/4 (83)
*includes lagging and belt	

3. From center of pulley, draw an arc equal to “Y” distance (Label Line “A”).

Note: If no structure is available for hole locating, add additional mounting plate.

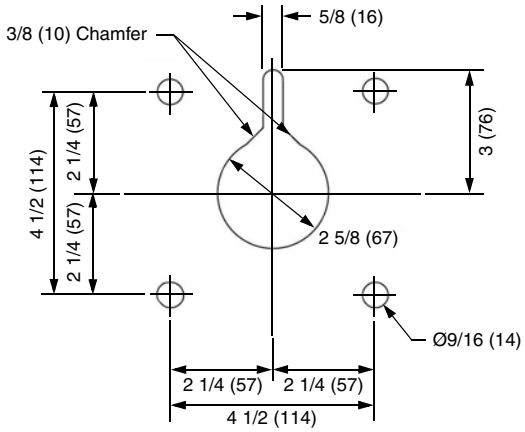
4. Draw a horizontal line from center of pulley shaft outward (Label Line “B”).
5. Measure down from Line “B” - 7 5/8in (194mm) and draw a horizontal line parallel to Line “B” and intersects Line “A”. (Label Line “C”)
6. Where Line “A” and Line “C” intersect is center point for shaft mounting bracket.

Figure 3



7. Double check measurements with gauge (provided) as shown. Adjust measurements if needed.

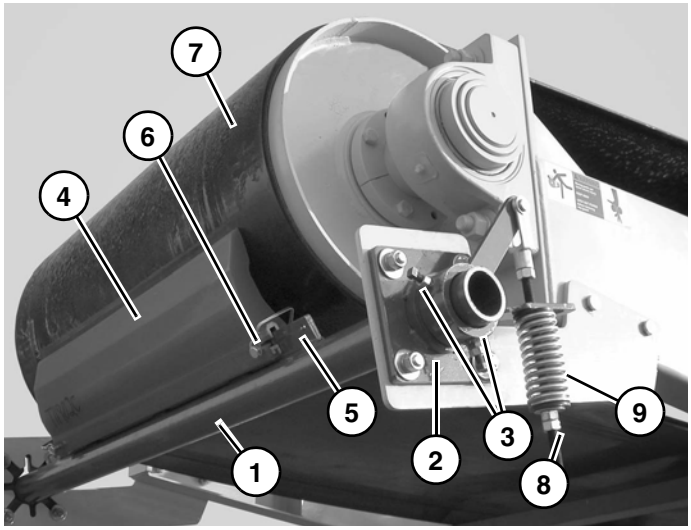
Figure 4



8. Drill holes for shaft mounting bracket. Template is also provided with Exterra Primary Belt Cleaner.

9. Repeat steps 1-8 on opposite side of conveyor.

Figure 5



Refer to *(Figure 5)*

10. Insert shaft (1) into shaft mounting brackets (2).

11. Position groove of new blade (4) on blade mounting bracket (5). Position in the center with blade curve facing belt (7).

12. Install pin clips (6).

13. Rest blade against belt surface (7) and tighten set screws (3) on both sides.

14. Tighten adjustment nut (8) on tension rod (9) to recommended tension settings.

Maintenance

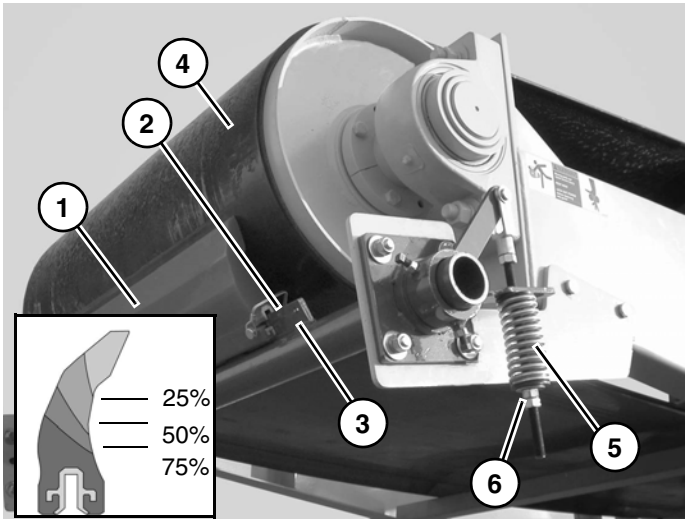
Weekly

- Check blade for excessive wear.
- Check blade tension.

Blade Replacement

The average is to replace blade between 50%-75% worn. Material being conveyed determines how often replacement is needed. *(Figure 6)*

Figure 6



Refer to *(Figure 6)*

1. Remove tension from blade (1) by loosening adjustment nut (6) on tension rod (5).

2. Remove existing pin clips (2) and worn blade. Keep pin clips for installation of new blade.

3. Position groove of new blade (1) on blade mounting bracket (3). Position in center with blade curve facing belt (4).

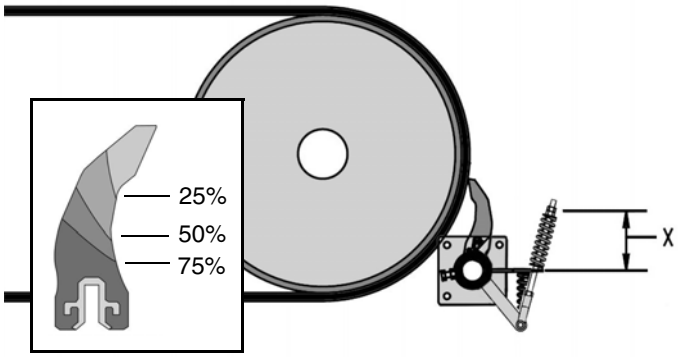
4. Reinstall pin clips (2).

5. Tighten adjustment nut on tension rod to recommended tension settings.

Belt Cleaner Tension Settings

Reapply tension when necessary. It is recommended tension be adjusted 4-6 times throughout life of blade.

Figure 7



Blade Length in (mm)	Qty of Tensioner	"X" Dim New Blade in (mm)	"X" Dim 25% Wear in (mm)	"X" Dim 50% Wear in (mm)	"X" Dim 75% Wear in (mm)
10 (254)	1	4 (102)	4 1/4 (108)	4 1/2 (114)	4 1/2 (114)
16 (406)	1	3 3/4 (95)	4 (102)	4 1/4 (108)	4 1/2 (114)
22 (559)	1	3 1/2 (89)	3 3/4 (95)	4 (102)	4 1/4 (108)
28 (711)	1	3 (76)	3 1/2 (89)	3 3/4 (95)	4 (102)
34 (864)	1	2 3/4 (70)	3 1/4 (83)	3 1/2 (89)	3 3/4 (95)
40 (1016)	2	3 3/4 (95)	3 7/8 (98)	4 1/8 (105)	4 1/4 (108)
46 (1168)	2	3 1/2 (89)	3 3/4 (95)	4 (102)	4 1/8 (105)
52 (1321)	2	3 1/4 (83)	3 1/2 (89)	3 3/4 (95)	4 (102)
58 (1473)	2	3 1/4 (83)	3 1/2 (89)	3 3/4 (95)	4 (102)
64 (1626)	2	3 (76)	3 3/8 (86)	3 5/8 (92)	3 7/8 (98)
70 (1778)	2	3 (76)	3 1/4 (83)	3 1/2 (89)	3 3/4 (95)

Specifications

Primary Blade Width: 10in - 70in (254mm - 1778mm)

Primary Blade: Material: 87A Urethane

Fits Belt Widths: 18in - 72in (457mm - 1829mm)

Pole Length: 48in - 114in (1219mm - 2896mm)

Tensioner Quantity: 1 or 2

Troubleshooting

If problem you are experiencing is not listed or solution does not solve problem call Superior Industries for help.

Problem	Cause
Excessive blade wear.	1
Blade wears in center more than ends.	2
Insufficient belt cleaning and carry back.	3

1. Tension on blade set too high. Reduce tension. See "Belt Cleaner Tension Settings" for recommendations.
2. Pulley may be crowned. Use 8in (203mm) minus belt width for blade length.
3. Tension on blade set too low or high. Increase or decrease tensioner setting. See "Belt Cleaner Tension Settings" for recommendations.