

Installation, Operation & Maintenance –Eraser EPQTM Primary Belt Cleaning System

Kinder Australia Product:	Eraser EPQ TM Primary Belt Cleaning System
Product Category:	Belt Cleaning System Products
Issue Date:	29/09/2021
Revision:	1



Always obey all applicable safety rules.

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

kinder.com.au

Subject to © Kinder Australia Pty Ltd
ABN 28 006 489 238

KDOC00098
Page: 1

Kinder Australia Pty Ltd

26 Canterbury Road, Braeside VIC 3195
PO Box 1026, Braeside VIC 3195

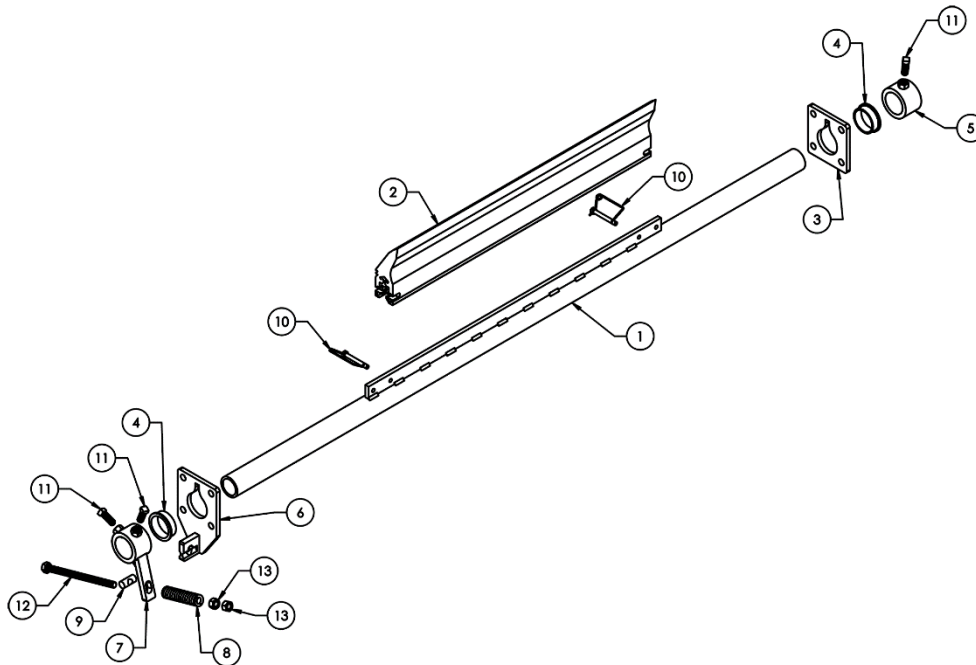
☎ +61 3 8587 9111
✉ +61 3 8587 9101

✉ conveyorsolutions@kinder.com.au



Installation, Operation & Maintenance –Eraser EPQ™ Primary Belt Cleaning System

Assembly Breakdown



Number	Part Number	Quantity Systems ≤1000BW	Quantity Systems >1000BW	Description
1	K-CLE-CP-EP-M"XXX"A	1	1	Mainframe
2	K-CLE-CP-RE-"XX"-G83	1	1	Raptor Blade
3*	K-CLE-CP-EC-P4548A	1	-	Mounting Plate
4**	K-CLE-CP-EC-P2520	2	2	Flange Bearing
5*	K-CLE-CP-EC-1820A	1	-	Locking Collar
6†	K-CLE-CP-EC-P4573A	1	2	Mounting Plate
7†	K-CLE-CP-EC-P2040A	1	2	Tension Arm
8†	K-CLE-CP-EC-P1040	1	2	Die Spring
9†	K-CLE-CP-EC-P6314A	1	2	Bolt Pivot
10	K-CLE-CP-AR-275	2	2	Safety Snap Pin 5/16" x 2-1/2"
11*	K-CLE-CP-AR-5125S	3	4	Set Screw 1/2" - 13UNC x 1-1/4" Long SS
12†	K-FAS-1/2x8HEXHD-Z	1	2	Hex Tap Bolt 1/2" - 13UNC 8" Long Zinc
13†	K-FAS-1/2ZINCNUT	2	4	1/2" Zinc Plated Hex Nut

* Available as K-CLE-CP-PQ-RK32-NT Mounting Bracket Assembly
† Available as K-CLE-CP-PQ-RK32-NT Tensioner Assembly

Installation Tools Required

- Tape Measure
- Cutting Torch or Hole Saw (2 1/2")
- Level
- Scribe or Chalk
- Welder or Drill
- 1/2" End Wrench
- 2 x 3/4" End / Crescent Wrenches

Bolts, lock washers and nuts for mounting are not supplied

Kinder Australia Pty Ltd

26 Canterbury Road, Braeside VIC 3195
PO Box 1026, Braeside VIC 3195

+61 3 8587 9111
+61 3 8587 9101

conveyorsolutions@kinder.com.au

kinder.com.au

Subject to © Kinder Australia Pty Ltd
ABN 28 006 489 238

Installation, Operation & Maintenance –Eraser EPQ™ Primary Belt Cleaning System

Step One: Layout

Measure the distance from the centre of your pulley shaft to the outside surface of your conveyor belt. This will be your Outside Radius (“A” on the illustration below). Find your Outside Pulley Diameter (outside radius $\times 2$) on the Dimension Table to the right. Add the corresponding “X” dimension to your Outside Radius. (Example: 242mm Radius + 102mm = 344mm). This is your “Y” dimension (Y = 344mm). The illustrated “Z” dimension is a minimum value and provides for the optimum mounting position.

Dimension Table (mm) – Table 1

Dia. “A”	“X”	“Z” min
406-482	99	229
483-559	89	229
560 - 636	81	229
637-712	74	229

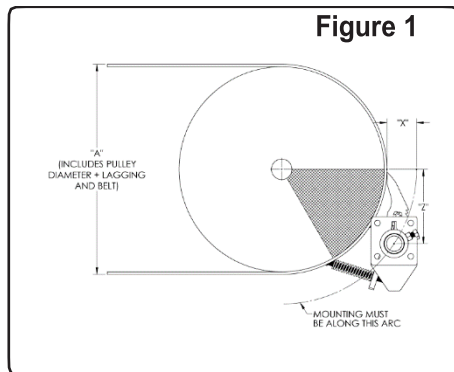


Figure 1

Note:

This Eraser EPQ™ Primary Belt Cleaning System is designed to be used on conveyor pulleys of 16" (406mm) in diameter up to 28" (712mm). Using this system on a pulley smaller than the recommended size stated above will not provide proper cleaning of your conveyor system.

Inclined belt mounting position

Figure 2 demonstrates the correct mounting location for inclined conveyors.

IMPORTANT
Tip of blade is
below horizontal axis.

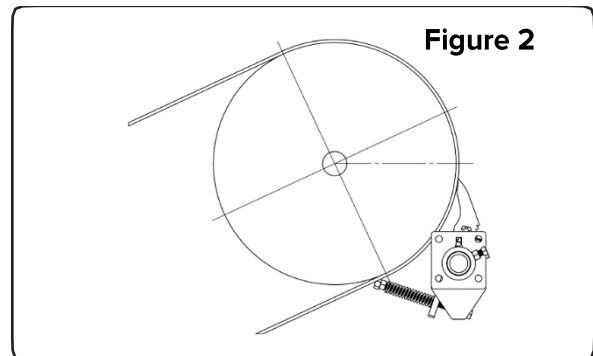
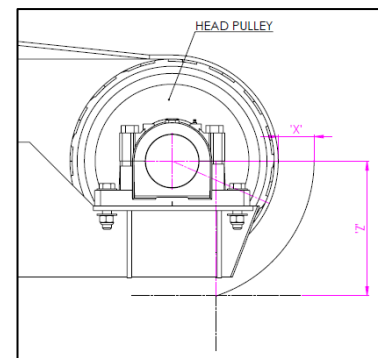


Figure 2

Step Two: Alignment

From the centre 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 centre 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”. Using a level and scribe, draw a vertical line which bisects the horizontal line at the intersection. This bisected point will be the centre point for the mounting spool location. If no structure is available at this point, metal will need to be added.



Kinder Australia Pty Ltd

26 Canterbury Road, Braeside VIC 3195
PO Box 1026, Braeside VIC 3195

+61 3 8587 9111
+61 3 8587 9101

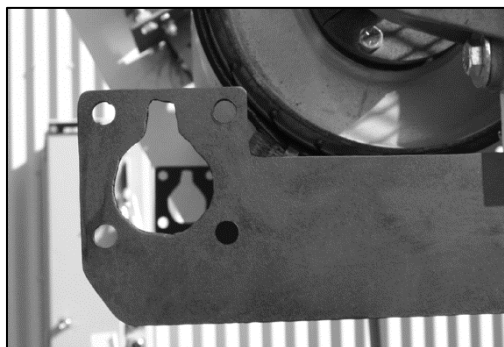
conveyorsolutions@kinder.com.au

kinder.com.au

Subject to © Kinder Australia Pty Ltd
ABN 28 006 489 238

Installation, Operation & Maintenance –Eraser EPQTM Primary Belt Cleaning System

Step Three: Installation



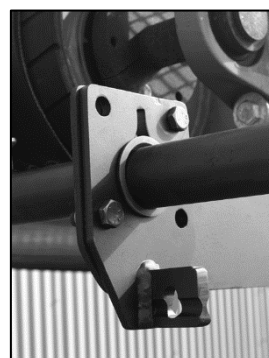
Using the centre point found above and with the mounting plate as a template, trace bolt holes and mainframe hole onto mounting structure. Using a cutting torch or hole saw, cut holes in plate.



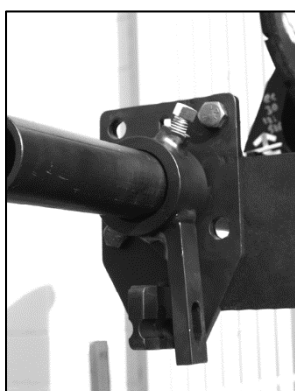
Bolt both mounting plates to the structure. When mounting a single tensioner system, place the tensioner side where it will be the most accessible. Slide the mainframe through the mounting plates and structure so that it is centred on the belt.



Install the blade onto the mainframe using the supplied pins and centre the blade on the belt.



Place the red bushings into the mounting plates with the flange on the outside of the plate. If you are using a single-tensioning system, secure the locking collar on the non-tensioning side, making sure to place it up against the bushing.



Slide tensioner arm onto the mainframe, with arm facing down and to the right, placing it up against the bushing. Put the adjustment bolt through the bolt pivot, passing it through the oval hole in the mounting plate and through the tensioning arm. The bolt pivot should seat into the radius on the mounting plate.

IMPORTANT

Check for free rotation, minimal lateral movement of the assembly shaft, and consistent contact of the blade to the belt. Adjust if necessary, realign, and tighten all mainframe set screws.

Kinder Australia Pty Ltd

26 Canterbury Road, Braeside VIC 3195
PO Box 1026, Braeside VIC 3195

☎ +61 3 8587 9111
✉ +61 3 8587 9101

✉ conveyorsolutions@kinder.com.au

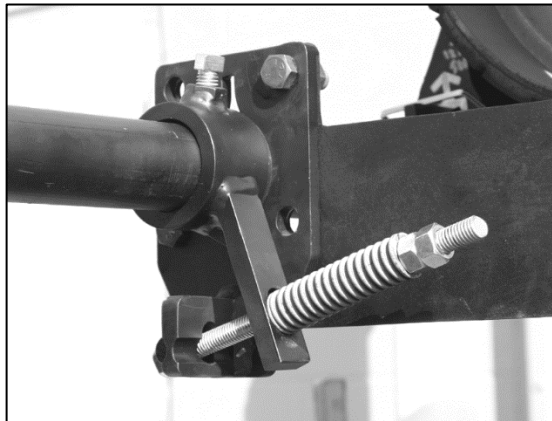
kinder.com.au

Subject to © Kinder Australia Pty Ltd
ABN 28 006 489 238

Installation, Operation & Maintenance –Eraser EPQTM Primary Belt Cleaning System

Step Four: Tensioning

Slide the spring onto the adjustment bolt and then add the adjustment nut. Thread the nut on until the back of it is flush with the end of the bolt.



While making sure the blade is contacting the belt, rotate the tensioning arm, forcing the spring up against the nut. Secure it by tightening the two set screws.

Thread the adjustment nut onto the bolt so that there is about 40mm (1½”) of thread showing between the nut and the end of the bolt.

Fasten the jam nut firmly against the adjustment nut.

IMPORTANT

Do not over tension or excessive blade wear will occur.

Installation is now complete.

As the blade wears re-tensioning should occur to maintain an adequate cleaning performance.



Installation, Operation & Maintenance –Eraser EPQ™ Primary Belt Cleaning System

TROUBLESHOOTING GUIDE

Problem	Probable Cause	Suggested solution
Excessive/Uneven blade wear or damaged blade	Cleaner under/over tensioned	Ensure tension was set correctly – See tensioning table on pg. 10
	Cleaner installed in wrong location	Ensure the blade is the correct “X” distance from the pulley and adjust if necessary – See table 1 on pg. 3
	Wrong urethane for operation	Consult Kinder for proper urethane selection
	Mechanical splice damaging blade	Repair, skive or replace splice
	Damaged belt	Fix damaged area or replace belt
	Cleaner not square to head pulley	Ensure the “X” dimension is correct, adjust if necessary, and that the mounting points are level – See table 1 on pg. 3 for correct “X” distance
Wear only on centre of blade (smile effect)	Blade wider than material path	Replace with shorter bladed cleaner assembly or cut excess to just outside material path.
Vibration or noise	Cleaner at wrong distance	Use table on pg. 1 to ensure that the correct “X” distance has been used. Adjust if necessary.
	Cleaner running on empty belt	Use a spray pole to lubricate belt when running dry
	Cleaner under/over tensioned	Ensure tension was set correctly – See page 5 for tensioning instructions.
	Cleaner not securely fastened	Check all bolts and nuts for damage and ensure they are securely fastened.
	Cleaner not square to head pulley	Ensure the “X” dimension is correct, adjust if necessary, and that the mounting points are level – See table 1 on pg. 3 for correct “X” distance
	Material build-up in chute	Clean up build-up on cleaner and in chute
Poor cleaning performance	Cleaner under/over tensioned	Ensure tension was set correctly – See page 5 for tensioning instructions.
	Cleaner installed too high	Ensure “Z” dimension is above minimum using table 1 on pg. 3
	Urethane blade worn out or damaged	Install a new blade and check for possible causes of wear/damage
Blade pushed away from pulley	Cleaner tension too low	Increase tension or add a second tensioner if required.
	Sticky material is overpowering cleaner	Increase tension or add a second tensioner if required
		Replace with shorter bladed cleaner assembly (just outside material path), use a harder urethane and increase tension of system
		Replace with larger sized cleaner
	Cleaner not set up correctly	Ensure tension, distance and position are correct and check bolts and nuts are tightened correctly.
Blade flipping through	Cleaner installed too far from pulley	Ensure the “X” dimension is correct and adjust if necessary - See table 1 on pg. 3 for correct “X” distance
	Cleaner blade too small for pulley	If pulley diameter is over 406mm then replace with larger bladed cleaner assembly.

Kinder Australia Pty Ltd

26 Canterbury Road, Braeside VIC 3195
PO Box 1026, Braeside VIC 3195

☎ +61 3 8587 9111
✉ +61 3 8587 9101

✉ conveyorsolutions@kinder.com.au

kinder.com.au

Subject to © Kinder Australia Pty Ltd
ABN 28 006 489 238

KDOC00098

Page: 6