Installation Instructions: XTC Reversing Conveyor Belt Cleaning System

Kinder Australia product:	XTC Reversing Conveyor Belt Cleaning System
Product category:	Belt Cleaning System Products – Secondary Series
Overview:	The XTC is a powerful reversing conveyor cleaner. The system can handle wet, dry, sticky or slimy conditions. The unique Web Torque™ tensioner has enough give for mechanical splices and the flow-over blade design reduces material build-up. The XTC is designed with the same toughness and durability as our standard Eraser, with a 6mm (¼") thick, 76 mm x 76 mm (3" x 3") tube stock steel mainframe and heavy duty stub ends.

Installation Tools Required:

- Tape measure
- Welder or Drill
- Scribe or Chalk
- ½ " End Wrench
- 1⅛ " End Wrench, Socket or Crescent
- Straight Edge
- Cutting Torch or Hole Saw (3½ ")
- Level

WARNING

Always obey all applicable safety rules. Be sure all power to the conveyor has been disconnected and controls are locked out.

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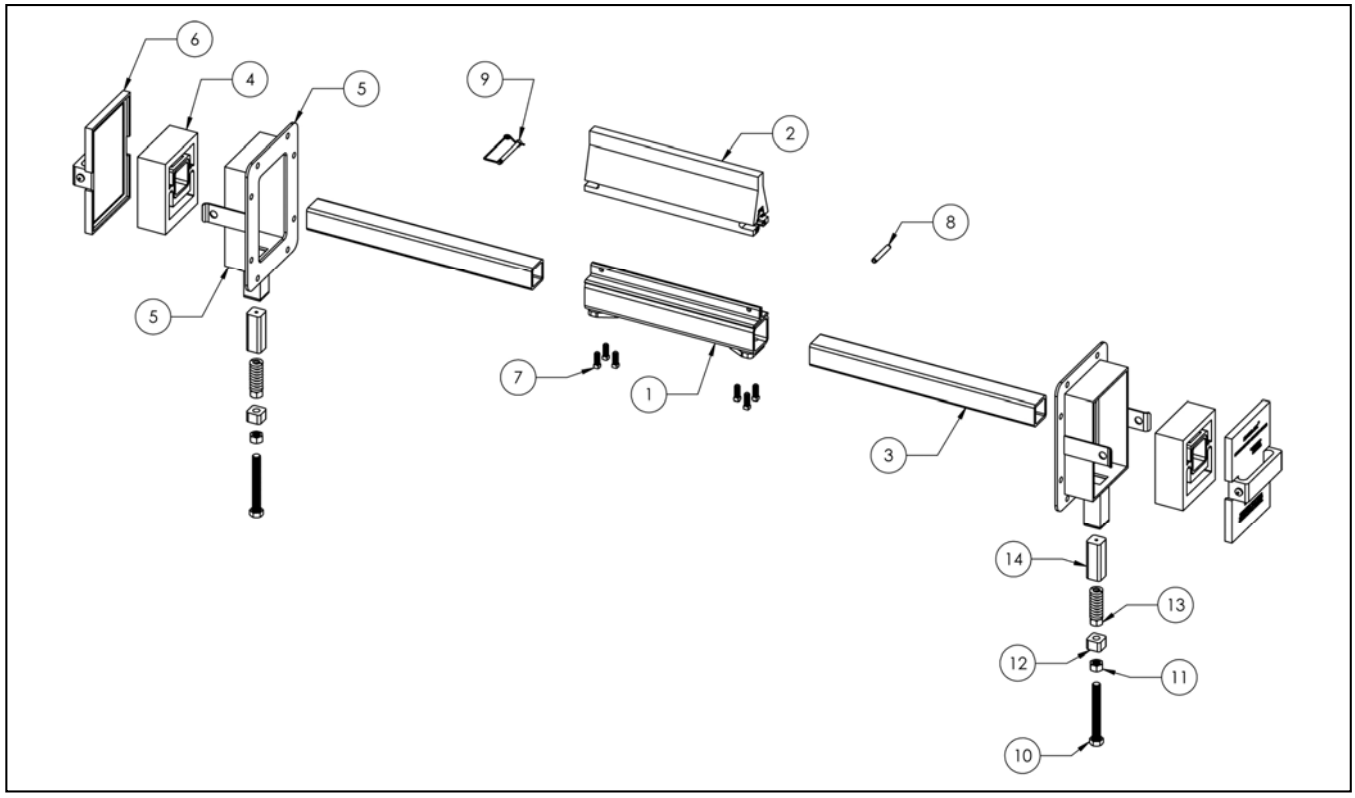
Assembly Breakdown



Number	Part Number	Quantity	Description
1	CP-AR-"XX"-A	1	Mainframe - see pricing on previous pages
2	CP-XT-"XX"-G83	1	Blade - see pricing on previous pages
3	CP-XT-18B or	2	Stub End
	CP-XT-24B	2	Extended Stub End
4	CP-XT-67C-B93	2	Web Tensioner
5	CP-XT-710A	2	Door Frame
6	CP-XT-710B-G83	2	Door Plate
7	CP-AR-5125 S	6	Stainless Hex Head Set Screw 1/2" x 1-1/4"
8	CP-AR-305	1	Spring Pin
9	CP-ESC-3835	1	Tension Pin 1/4" x 4"
10	BOLT-0.75X6.0-NCFT	2	Tap Bolt
11	NUT-008	2	0.75 - 10UNC Brass Nut
12	CP-XT-1515	2	Nylon Tensioner Nut
13	CP-DP-3125	2	Tension Spring
14	CP-XT-153-G83	2	Spring Sleeve

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Step One: Layout

Place a straight edge or level perpendicular to the belt by using a square across the width of the belt (Figure 1). Where the belt leaves the head pulley (L1), make a mark on each side of the mounting structure or wall (L2). Repeat this process within the 16" maximum mounting area (A) shown in Figure 2 pictured right. This will be your L3 mark. Now measure perpendicular to the belt 14 ⅝" (B) down from your marks and scribe a line between these two points. This line should be parallel with the belt and 14 ⅝" ± ¼" down. The **XTC Belt Cleaning System** can be mounted anywhere along this line. Make sure that both sides of the mounting structure wall are marked exactly the same.

The ideal location is to have the edge of the door frame directly below and perpendicular to the pulley shafts centre. If no structure is available at this location, one will need to be added.

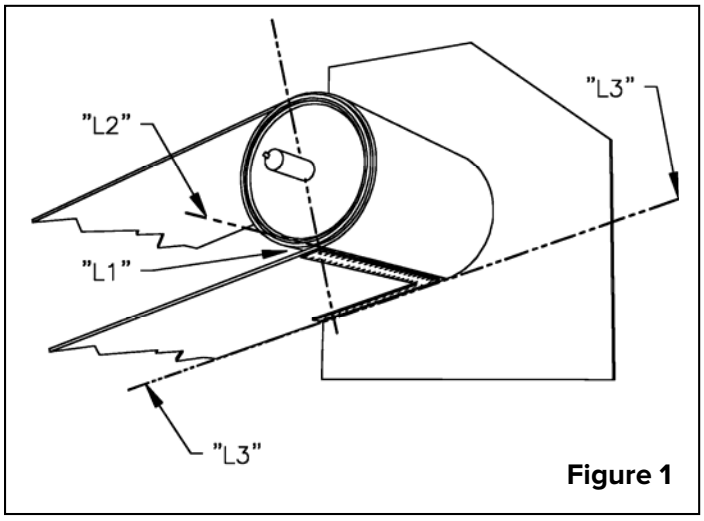

Figure 1

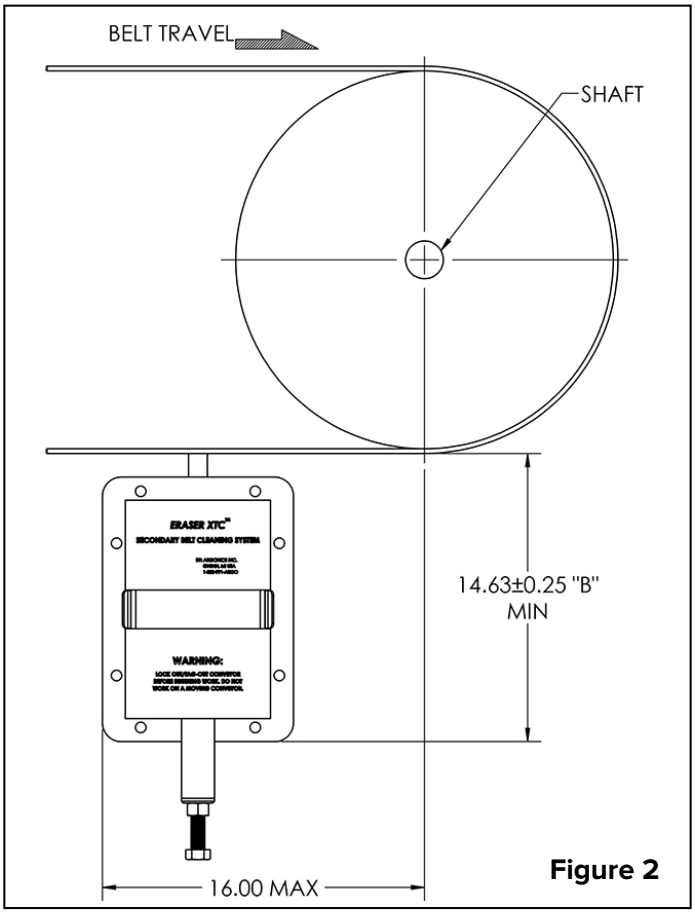

Figure 2

Step Two: Mounting

The **XTC Belt Cleaning System** comes fully assembled. Remove the door frames from the mainframe by removing the door plates and loosening the square head set screws from the web-torque tensioners. The door frames are designed to be welded or bolted into position. Using a door frame as a template, line up the lower right hand corner of the door frame with the bisected lines on the mounting structure wall from Step 1.

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Trace the inside perimeter and the entire outside perimeter of the door frame onto the mounting structure wall. Also, transfer the bolt-hole pattern if you intend to bolt the system into place rather than weld.

Repeat this process for the other side of the mounting structure. **NOTE: Both sides must be equal and perpendicular to the belt.**

Cut the centre approximately ½" larger than the trace which was scribed on each side of the mounting structure. **NOTE: For Bolt In Only - Using the traces that you scribed for the mounting holes, drill eight ⅝" diameter holes to accept ½" diameter grade 8 bolts.**

Place the door frame onto the side of the mounting structure wall. Use the scribed perimeter lines to line up the frame and then weld or bolt it into place. If welding, eight stitch welds is sufficient on the corners of the door frame. Place the web-torque tensioners back into the door frames so that the head of the "square head" set screw is pointing down. Using a ½" end wrench, loosen the three square head set screws at each end of the mainframe. Collapse the stub ends into the mainframe. Lift the mainframe into position.

Now pull the stub ends out of the mainframe and slide them into the square holes within the web tensioners that are located in the door frames. Make sure that the ends of the stub ends do not protrude through the outside of the web-torque tensioners.

Tighten the 1" set screws located on the web-torque tensioners. Centre the blade with the belt and snug the six mainframe set screws to secure the stub ends.

Check for minimal lateral movement of the assembly. Adjust if necessary, realign and tighten all mainframe set screws.

Step Three: Tensioning

Tighten the 3⁄4" tap bolts located at the bottom of the door frames to bring the blade into contact with the belt on both ends of the system. Once the blade is in contact with the belt, continue to tighten both tap bolts another 10 complete revolutions. Tighten the brass lock nuts to secure web-torque tensioners in this position.

Install door plates by snapping them onto the door frames.

Installation is now complete.

Maintenance or re-tensioning should not be required throughout the life of the blade.

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