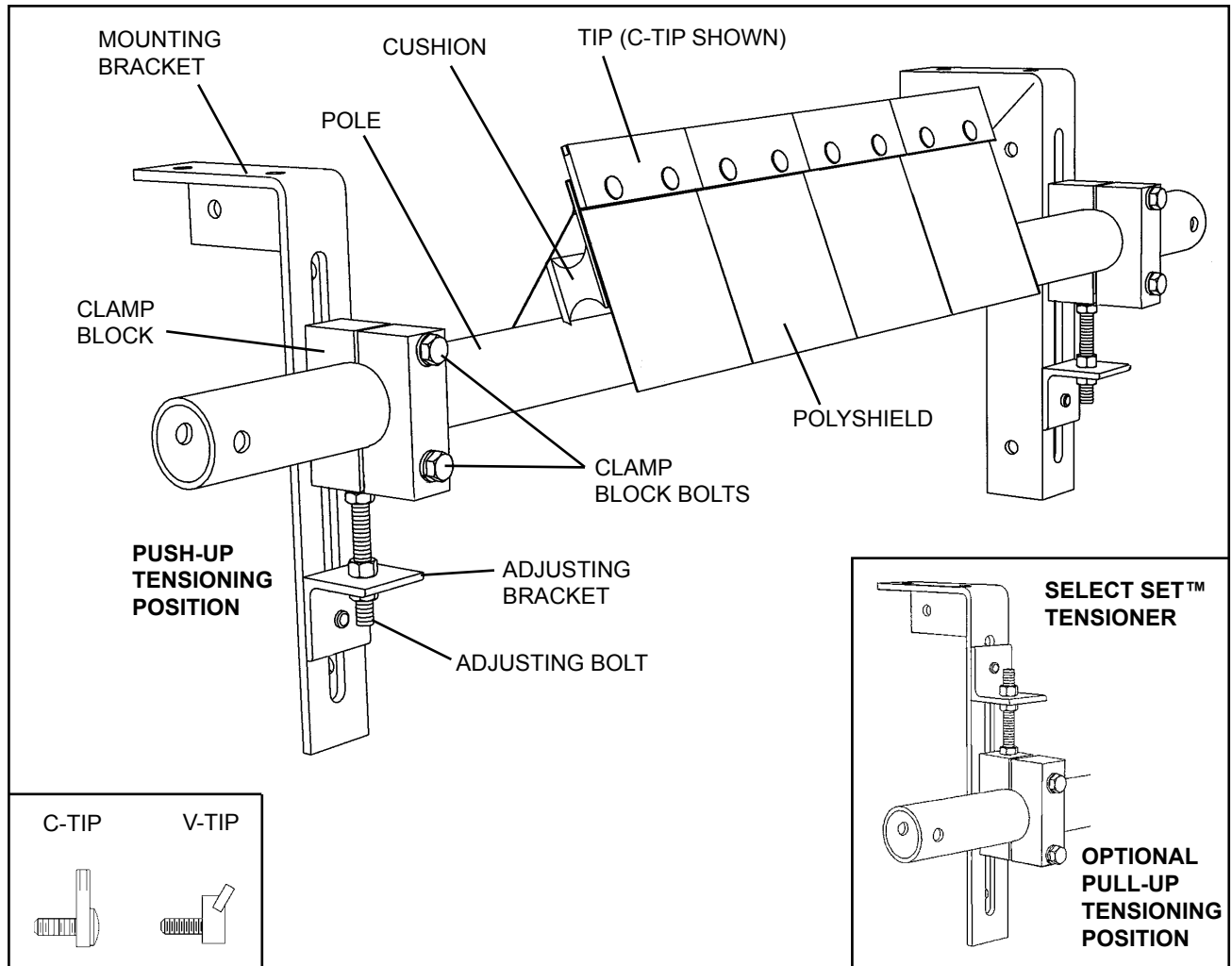


Eliminator[®] Belt Cleaning Systems

P-Type[®] & P-Type LS Belt Cleaner

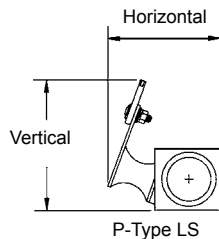
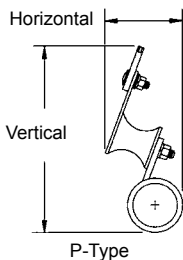
Instructions for Installation



TOOLS NEEDED:

- TAPE MEASURE
- 3/4" (19mm) WRENCH
- RATCHET WITH 3/4" (19mm) SOCKET
- 2 - 6" C-CLAMPS (for temporary positioning of mounting brackets)
- CUTTING TORCH AND/OR WELDER
- MARKING PEN

Clearance Requirements for Installation		
	Vertical	Horizontal
P-Type Cleaner	7" (175mm)	4" (100mm)
P-Type LS Cleaner	5-1/2" (138mm)	5" (125mm)

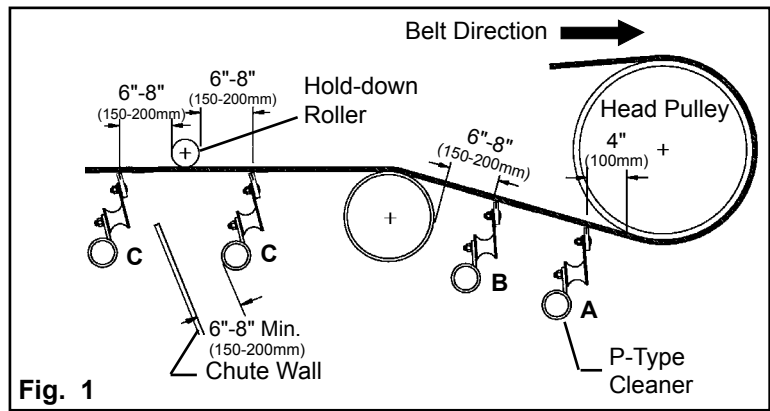


BEFORE YOU BEGIN:

- **PHYSICALLY LOCK OUT AND TAG THE CONVEYOR AT THE POWER SOURCE.**
- Double check the tip style needed for your application:
C-Tip - for mechanically spliced and vulcanized belts.
V-Tip - for vulcanized belts only.
- For chute mounting it may be necessary to cut an access hole to allow for installation and inspections. (See dimensions in STEP 2.)
- Follow all safety precautions when using a cutting torch.
- If welding, protect all fastener threads from weld spatter.
- For cleaner clearance requirements see chart. P-Type LS (available with C-Tip only) is designed for tighter space configurations.

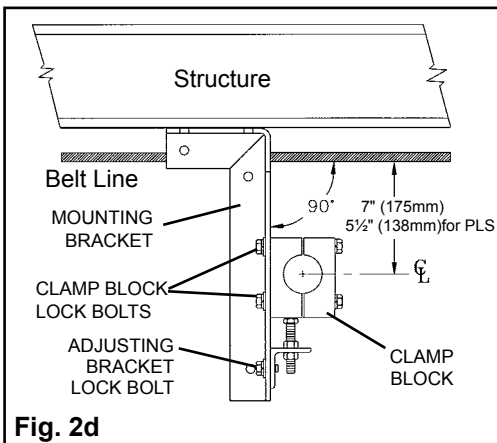
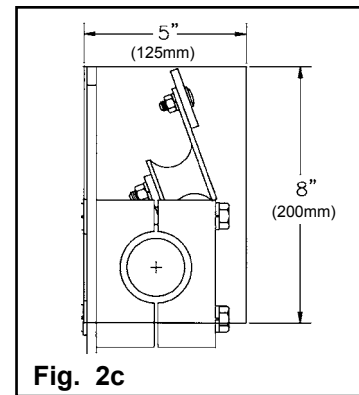
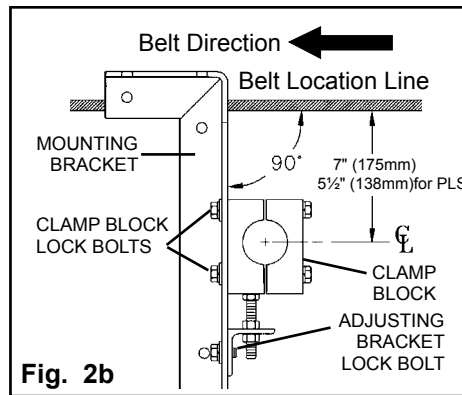
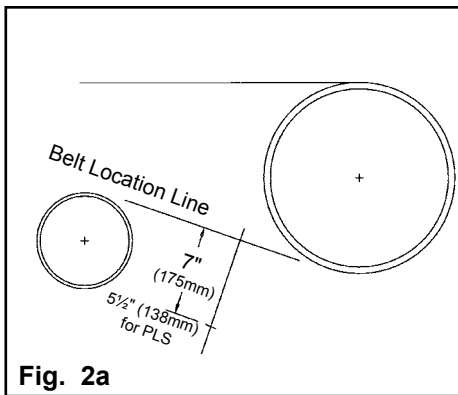
STEP 1. Choose the position on the conveyor where the cleaner will be installed (Fig. 1).

The P-Type® Belt Cleaner may be installed at any position on the beltline starting from a point 4" (100mm) from where the belt leaves the head pulley and continuing on down the conveyor. The optimum positions are 4" (100mm) from the head pulley (Position A) or 6" to 8" (150-200mm) in front of a snubber or return roller (Position B). If either of these positions is not possible, a hold-down roller may be required to provide adequate tension for the tips. (If a hold-down roller is required, the optimum cleaner position is 6" to 8" (150-200mm) either side of the roller (Position C). A hold-down roller is also required on conveyors where light belt tension makes constant tip contact unobtainable. Downward pressure is not required; the roller simply restricts any upward movement of the belt. In chute applications a minimum distance of 6" to 8" (150-200mm) is required between the cleaner and the chute wall to prevent clogging of material.



STEP 2. Install mounting brackets.

For chute mounting: For a chute installation a belt location line must first be established. Draw a line on the chute replicating this location. If head pulley and snub pulley are close, it may be necessary to assume an approximate belt line between the two. In the determined location draw a line perpendicular to the belt line. Make a mark on this line 7" (175mm) (5-1/2"/138mm for PLS) below belt location line (Fig. 2a). Locate a mounting bracket along this line allowing the centerline of the clamp block to align with this 7" (175mm) (5-1/2"/138mm for PLS) mark (Fig. 2b). To move the clamp blocks, if necessary, loosen the clamp block lock bolts and the adjusting bracket lock bolt and move the clamp block to a position where the center of the hole is 7" (175mm) (5-1/2"/138mm for PLS) below the bottom of the belt. Bolt or weld in place. Repeat this step on the opposite side. On one side an access hole may be required (Fig. 2c). NOTE: The brackets must be aligned perpendicular to the belt.



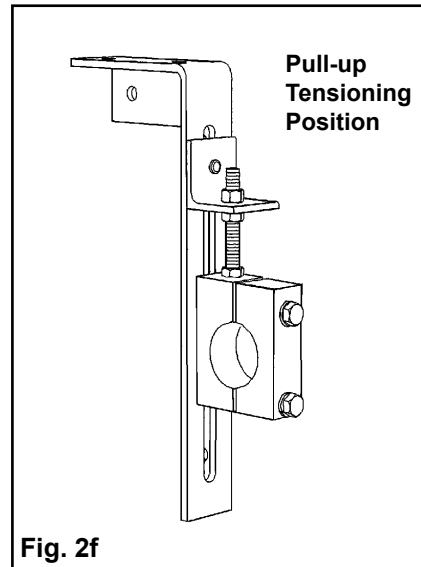
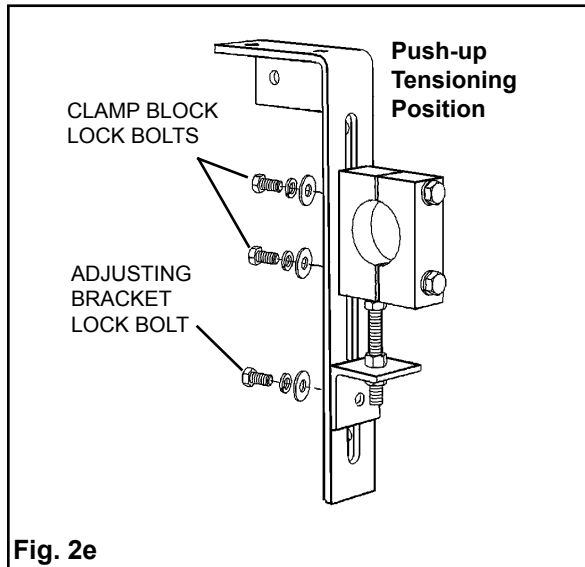
For structure mounting: In most applications the standard mounting brackets will have adequate room to fit on the structure with no cutting. Clamp the mounting bracket into position (use 6" clamps). Move the clamp block to align the center of the block with a point 7" (175mm) (5-1/2"/138mm for PLS) below the belt (Fig. 2d). To move the clamp blocks, if necessary, loosen the clamp block lock bolts and the adjusting bracket lock bolt and turn the adjusting bolt jam nuts. The bracket can now be bolted or welded in place. Locate and install bracket on the opposite side of belt in alignment with the first bracket. NOTE: The brackets must be aligned perpendicular to the belt.

STEP 2a. Choose a tensioning position with the Select Set™ Tensioner Kit:

Tensioner kits are shipped in the push-up tensioning position. On conveyors with clearance constraints, repositioning to the pull-up tensioning position may be required.

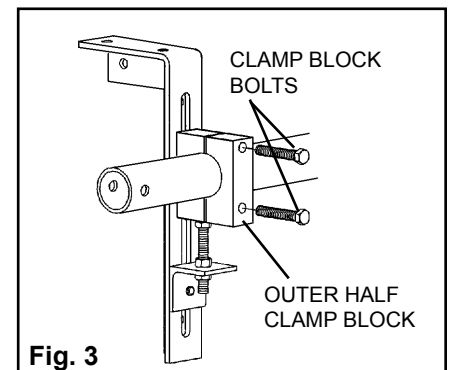
To change the tensioning position:

- Remove both clamp block lock bolts and the adjusting bracket lock bolt (Fig. 2e).
- Rotate the clamp block/adjusting bracket 180° and reinstall the bolts (Fig. 2f).
- Continue to STEP 3.



STEP 3. Install the pole.

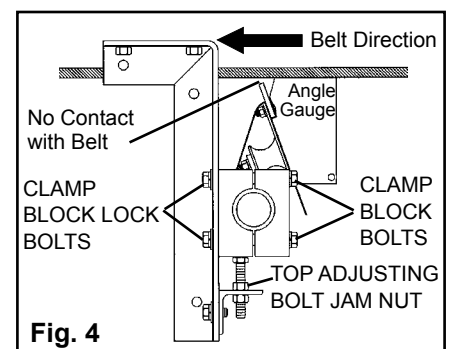
Remove the two clamp block bolts from the access side clamp block and remove the outer half of the clamp block. On the opposite side clamp block, just loosen the clamp block bolts to allow the pole to slide freely through (Fig. 3). Slide the pole across the belt, through the loosened clamp block, and locate into the outer clamp block half. Position the outer clamp block half over the pole and reinstall the clamp block bolts. Position the pole so the tips are centered on the belt and snug the clamp block bolts on both sides. Do not fully tighten.



STEP 4. Set the tip angle.

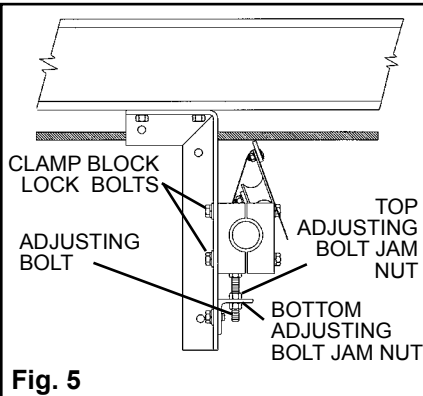
With angle gauge provided, rotate the tips to the preset angle (Fig. 4) and lock the pole in place by tightening the clamp block bolts equally.

NOTE: Make sure there is NO tip-to-belt contact while making this alignment. If contact occurs, lower the pole by loosening the clamp block lock bolts and raising the top adjusting bolt jam nut (Fig. 5). When the tips are not touching the belt, repeat this step.



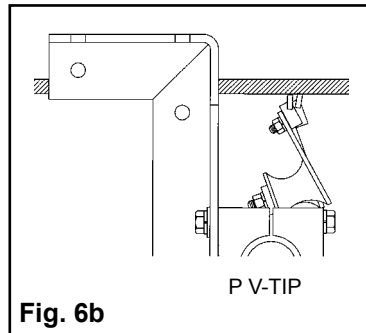
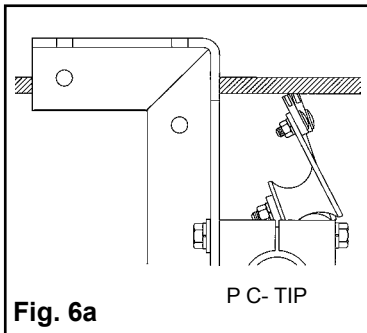
STEP 5. Set the tip tension.

With all clamp block lock bolts slightly loosened, back down the bottom adjusting bolt jam nut 5-6 turns on both sides (Fig. 5). Turn the top adjusting bolt jam nuts down until light contact is made between the tips and belt across the entire width of the cleaner. Give an additional 1-1/2 turns to both top adjusting bolt jam nuts and tighten both bottom adjusting bolt jam nuts. Tighten all clamp block lock bolts. Double check that all bolts and nuts on the cleaner are tight.



STEP 6. Check the tip tension.

Pull back on the outside tip until the tip-to-belt contact is broken and release. If the cleaner is correctly tensioned the complete blade of the adjacent tip will be visible (Fig. 6a & 6b). If not, add (or reduce) tension by making 1/2 turn adjustments on the adjusting bolt as described in STEP 5 until the adjacent tip is visible.



Test run the cleaner and inspect its performance.

If vibration occurs or more cleaning efficiency is desired, increase the tip tension by making a 1/2 turn adjustment on each adjusting bolt.



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