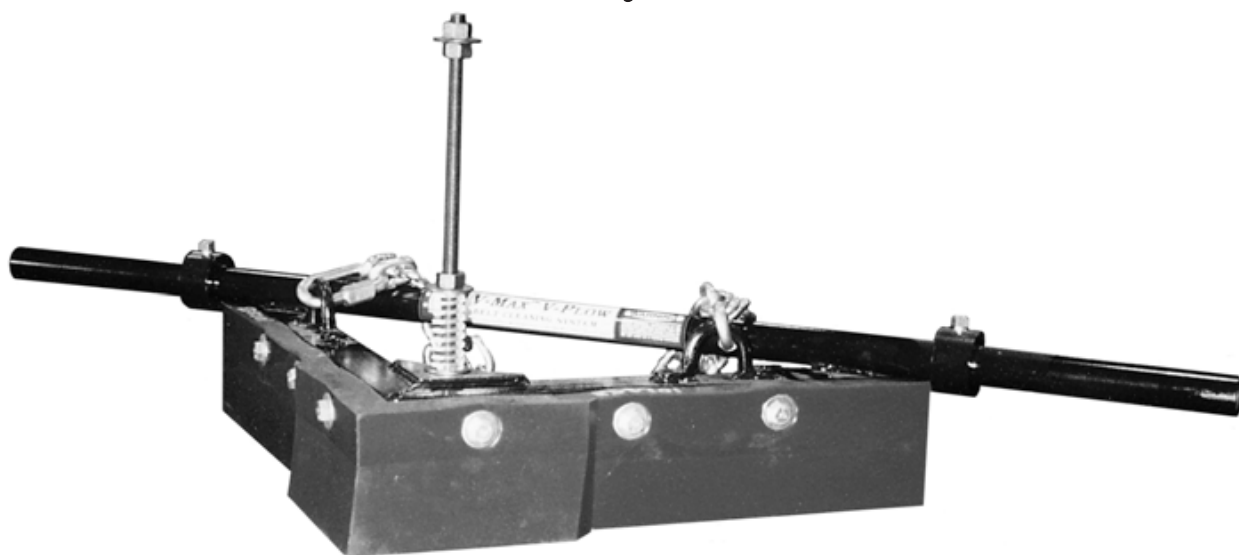


E-**PLOW**

Conveyor Belt Cleaning System

Economy V-Plow



ARGONICS
ENGINEERED POLYURETHANE

⚠ WARNING ⚠

Always obey all applicable safety rules.

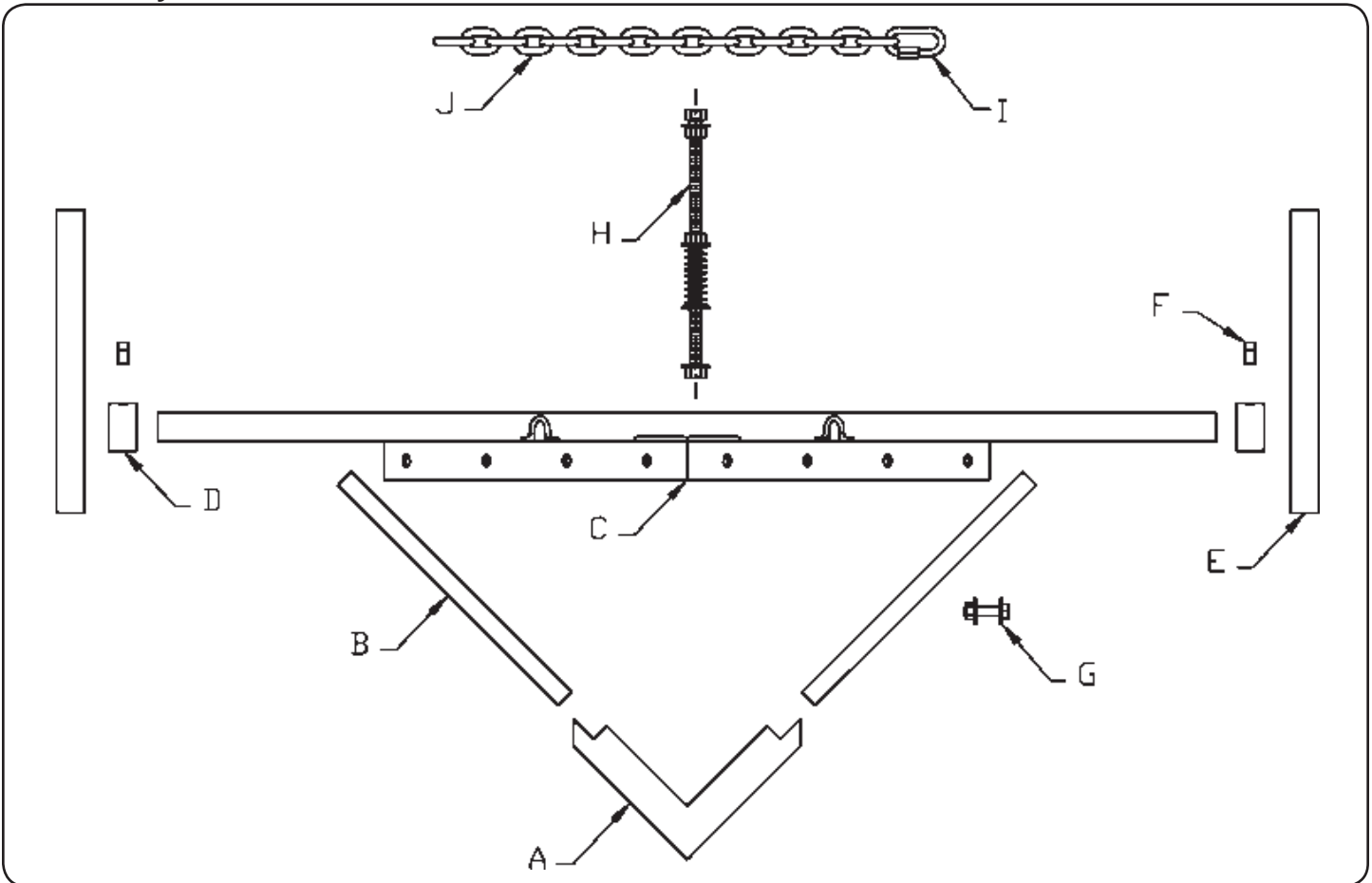
Be sure all power to the conveyor has been disconnected and controls are locked out.

Installation Tools Required

- | | |
|---|---|
| <ul style="list-style-type: none"> - Tape measure - Angle Gauge - Level & Straight Edge - Scribe or Chalk | <ul style="list-style-type: none"> - Welder or Drill - ½" End Wrench - Crescent Wrench |
|---|---|

Bolts, lockwashers and nuts for mounting are not supplied

Assembly Breakdown



Letter	Part Number	Quantity	Description
A	CP-VP-N66-G83	1	Nose Cone
B	CP-DP-15"xx"-G83	2	Blade
C	CP-EP-"xx"C	1	Mainframe
D	CP-MI-237C	2	Set Collar
E	CP-EP-C316	2	Mounting Bracket
F	CP-AR-5075 S	2	Stainless Hex Set Screw, .5" × .75"
G	BOLT-0.5x2 -NC-ZINC	varies	Hex Bolt, .5" × 2" - Zinc Plated
	BOLT-0.5x2.5 -NC-ZINC	2	Hex Bolt, .5" × 2.5" - Zinc Plated
H*	CP-VP-SPRING	1	Front Spring Assembly
I*	8947T18	2	Master Link - .75"
J*	3592T34	2	Safety Chain - 24"

Notes:

- * = Optional items

INSTALLATION

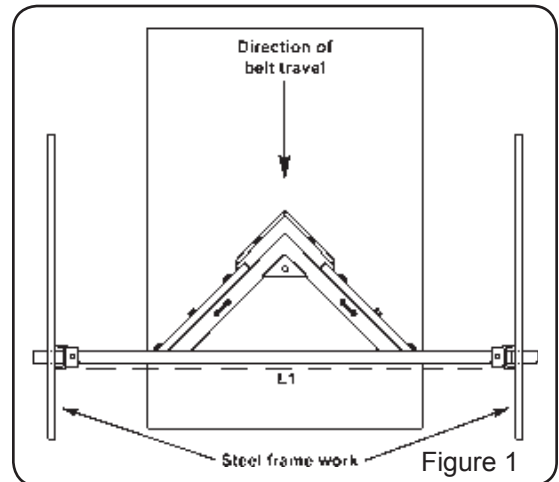
Step One: Set Up

The E-plow (economy plow) is packaged for shipping with the mounting brackets packed in a separate box or wrapped and strapped to the pallet that your E-plow was shipped on. Please make sure that you have two (2) of these brackets (item "E" in the assembly breakdown) before continuing with this installation.

Step Two: Layout

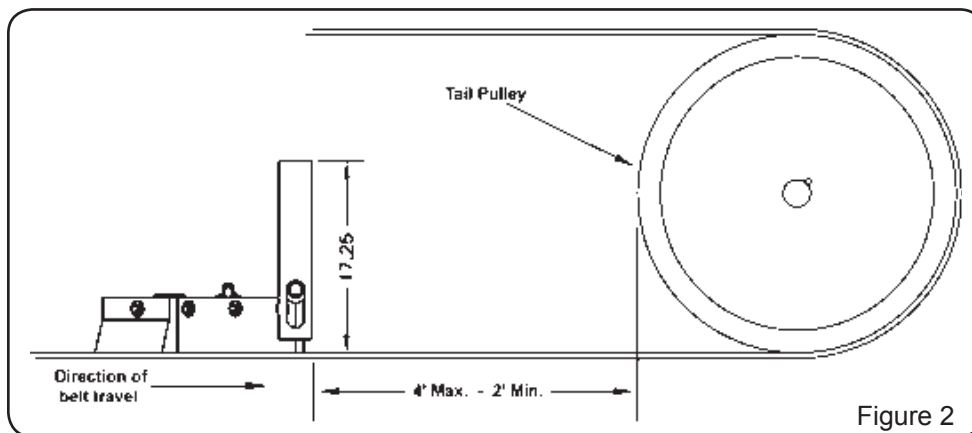
Begin layout by cleaning any debris from the conveyor belt surface where you will be mounting the E-plow. Using a 90-degree layout tool, draw a line across the entire width of the belt perpendicular to the belt length (see L1 in figure 1). You may need to draw a partial line and then finish it with a straight edge. This line should be no further than 4 feet and no closer than 2 feet from the tail pulley in order to properly protect the pulley from tramp materials (see figure 2). If for some reason you can not mount the E-plow within this area, you must then mount it to the closest available flat return idler, with the distance being no more than 1 foot from the idler.

NOTE: The further you place the E-plow away from the tail pulley, the more likely your pulley will become susceptible to tramp materials.



Step Three: Mounting

Slide the mounting brackets onto the mainframe's pipe bar so that the flat side of the bracket faces the E-plow. Place the complete E-plow system on top of the belt surface.



NOTE: If the conveyor's chute walls prevent you from doing this because of the E-plow's pipe bar welded to its frame, you may have to either cut holes through the chute walls to accommodate the pipe or cut the pipe ends to accommodate the width of the chute.

As you set the E-plow into place, be sure the blades are even with the belt edge or extend beyond the belt edge on both sides. Make sure the tails of the E-plow's V-shaped blade are even with the L1 line you drew onto the belt in Step Two (see figure 1). Now slide the mounting brackets out till they make contact against the chute walls and rotate the brackets so the long end of the bracket is pointing up (see figure 2).

At this point you can either weld or bolt the bracket to the side wall. If no chute wall or frame work is available you will need to construct an appropriate support structure. **NOTE: For Bolt In Only - Drill two $\frac{13}{16}$ " diameter holes to accept $\frac{3}{4}$ " diameter grade 8 bolts to mount each bracket into place. Anything less and you will void the warranty for this product.** If welding, four stitch welds are sufficient to hold the bracket to the structure. Now loosen the set screws on the set collars and slide them out till they make contact with the mounting brackets and then tighten the set screws.

Step Four: Safety devices (optional on E-plow systems)

Safety chains and nose cone support hardware (items H, I & J on page 2) are optional items that can be purchased and installed to provide a greater level of safety for your personnel, conveyor system and E-plow.

If these items are purchased but not installed properly, you will void any and all warranties associated with this E-plow system.

To install the nose cone support (only suggested for systems 36" and larger): Start by loosening the tensioner nut just above the spring located on the front of the E-plow. Back it off by 4" or more (see figure 3). Next, weld a $3\frac{1}{2}" \times 3\frac{1}{2}" \times \frac{3}{8}"$ thick piece of angle iron (not provided) parallel to the E-plow's mainframe across the chord members of your conveyor, approximately 11" above the belt's surface and directly above the hole in the nose cone support bracket (see figure 4). Now drill a $\frac{3}{4}"$ diameter hole through the top of the angle iron directly above the hole located in the E-plow's nose cone support bracket. Finally, remove the top nut and washer from the threaded rod and push the rod up through the hole in the angle iron. You will need to adjust both upper nuts on the rod until the lower welded nut is flush with the bottom of the nose cone support bracket.

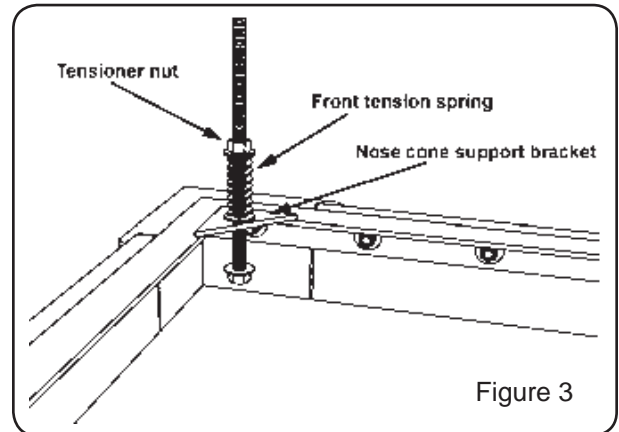


Figure 3

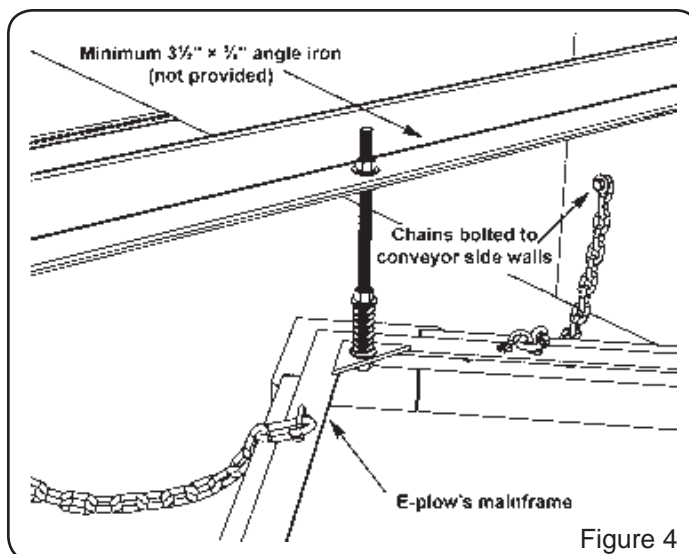


Figure 4

To install the safety chains: Weld or bolt the chain ends to the conveyor side walls approximately 6 to 8 inches in front of, and 2 to 4 inches above the E-plow's mainframe (see figure 4). When properly installed, you should have approximately 3" of slack in each chain.

NOTE: Under no circumstances should the chains ever be installed as to be touching the belt in any fashion.

NOTE: Argonics recommends the use of safety chains on all E-plow applications.

Installation is now complete.