

# V-Plow

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## Installation, Operation and Maintenance Manual

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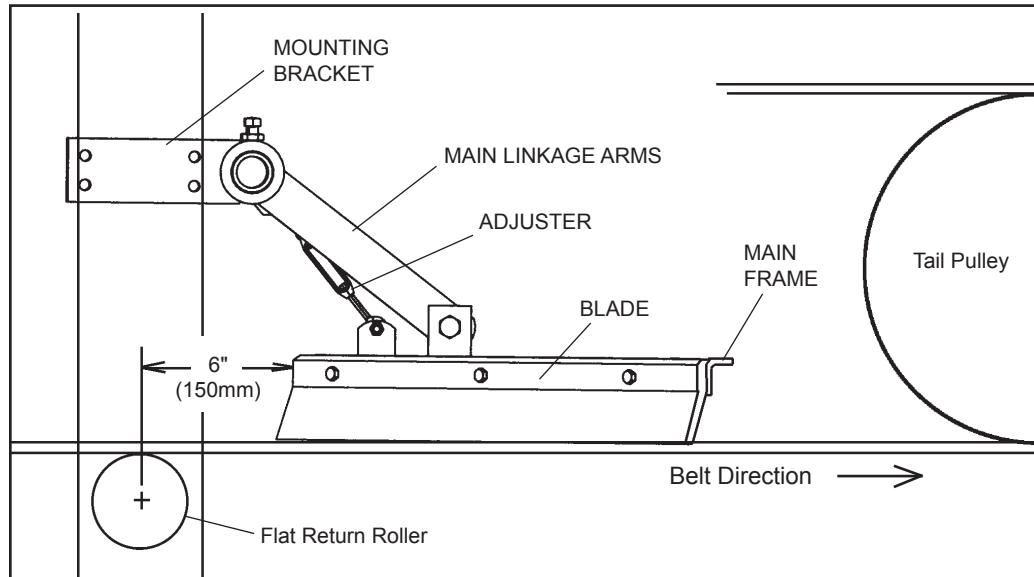
# Pre-installation Checks and Options

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## Checklist

- Check that the plow size is correct for the beltline width
- Check the product carton and make sure all the parts are included
- Review the “Tools Needed” list on the top of the installation instructions
- Check the conveyor site:
  - Are there obstructions that may require plow location adjustments
  - Ensure proper clearance is available between top side and return side belts (10”/ 250mm)

# Installation Instructions - V-Plow



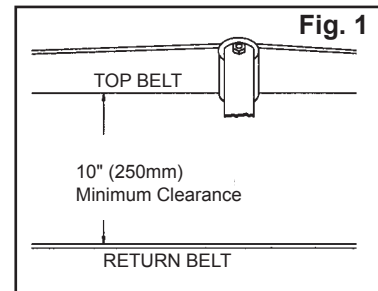
**Physically lock out and tag the conveyor at the power source before you begin installation.**

**Before Installation:** Ideally the V-Plow should be positioned in a flat area on the inside of the belt close to the tail pulley. For optimum cleaning performance, the nose of the plow should be located about 6" (150mm) behind a return roller.

## Tools Needed:

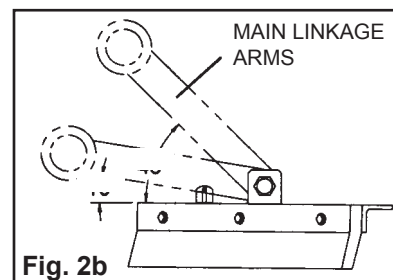
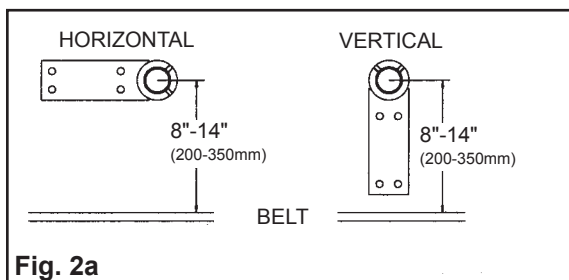
- 9/16" (14mm) wrench
- 1/2" (13mm) wrench
- 3/4" (19mm) wrench
- 15/16" (24mm) wrench

**STEP 1. Measure the distance between the top side and return belts.** A minimum of 10" (250mm) is required (Fig. 1). Place the V-Plow on the belt, positioned as specified above, to check for any clearance or obstruction problems.



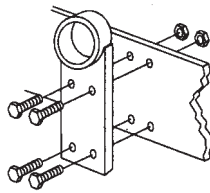
**STEP 2. Position the mounting brackets in either a horizontal or vertical position.**

The centerline of the pole must be within a range of 8" to 14" (200mm to 350mm) above the return belt to insure proper performance (Fig. 2a). **IMPORTANT:** The main linkage arms must be operated in a range between a minimum of 10° and a maximum of 45° (Fig. 2b). This allows the V-Plow to float on the belt.



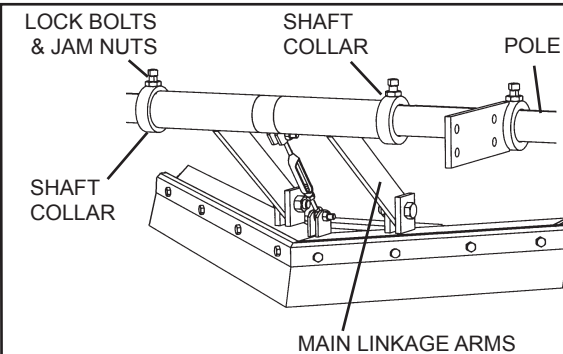
## Installation Instructions (cont.)

**Fig. 3**



### **STEP 3. Mark and drill holes for the mounting brackets.**

Attach with 1/2" (13mm) bolts and nuts provided (Fig. 3). Welding is optional.



**Fig. 4**

### **STEP 4. Center the V-Plow on the belt.**

Loosen the jam nuts and lock bolts on both stop collars on the pole. Slide the plow in the direction needed to center it on the belt. Once located, slide stop collars up to main linkage arms and tighten the lock bolts and jam nuts (Fig. 4). **NOTE:** Do not push stop collars too tightly against the main linkage assemblies so that it restricts easy movement of the linkage.

**Fig. 5**

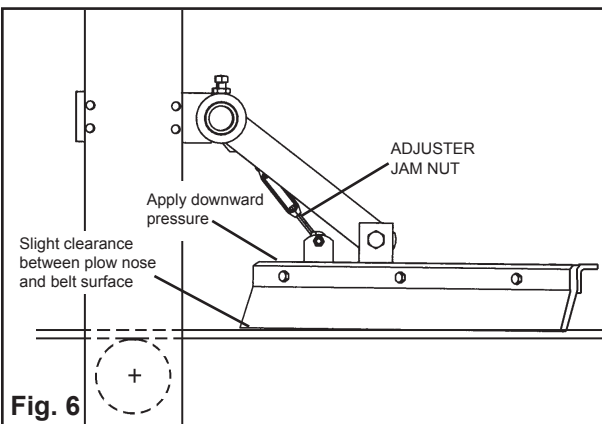
CENTER SLEEVE

ADJUSTER

### **STEP 5. Attach the adjuster to the center sleeve.**

Remove the nut and bolt from the center sleeve, insert the end of the adjuster between the brackets, and reinstall the nut and bolt (Fig. 5).

**IMPORTANT:** Tighten only until snug; the adjuster should move freely.



**Fig. 6**

### **STEP 6. Position the V-Plow to the belt.**

While applying downward pressure to the nose of the plow, turn the adjuster so that the nose just begins to lift off the surface of the belt (about .010"/.25 mm). Tighten the adjuster jam nut (Fig. 6).

### **STEP 7. Test run and inspect.**

Run the belt and check that the V-Plow runs smoothly and has an effective cleaning action. If any vibration occurs, turn the adjuster to raise the nose slightly.

# Pre-Operation Checklist and Testing

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## Pre-Op Checklist

- Recheck that all fasteners are tightened properly
- Check the blade location on the belt
- Be sure that all installation materials and tools have been removed from the belt and the conveyor area

## Test Run the Conveyor

- Run the conveyor for at least 15 minutes and inspect the performance
- Make adjustments as necessary

NOTE: Observing the plow when it is running and performing properly will help to detect problems or when adjustments are needed later.

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