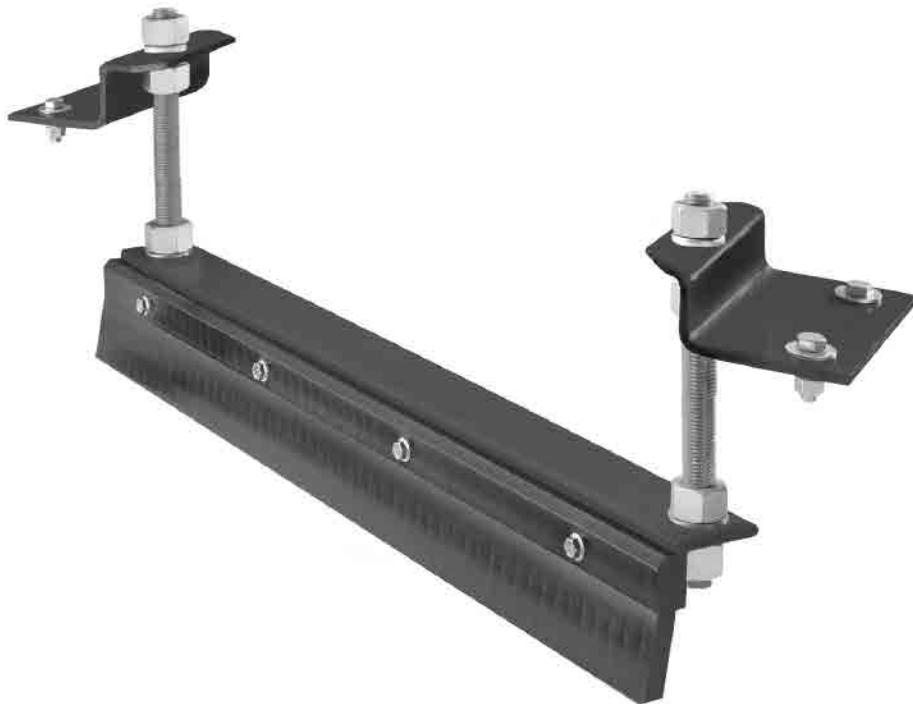


RDP1 Diagonal Plow

Installation, Operation and Maintenance Manual

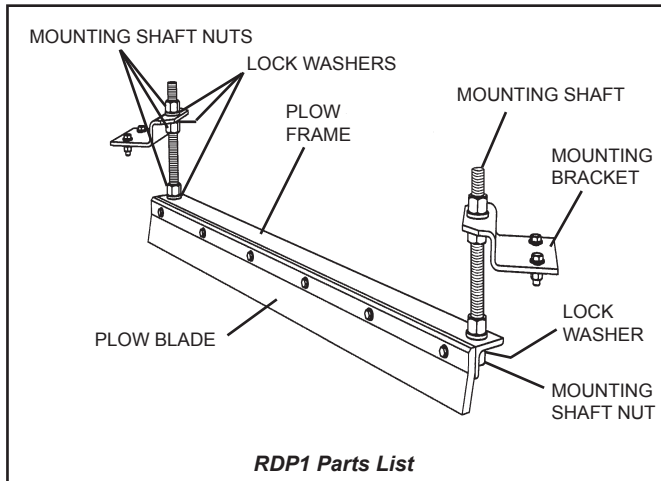


Pre-installation Checks and Options

Checklist

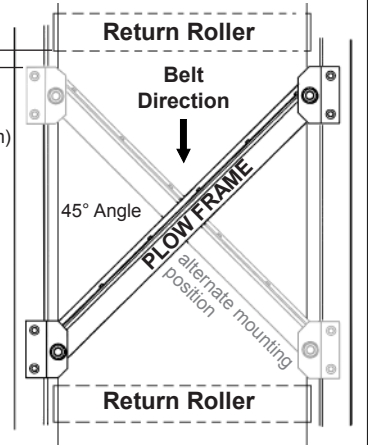
- Check that the plow size is correct for the beltline width
- Check the product carton and make sure all the parts are included
- Review the “Tools Needed” list on the top of the installation instructions
- Check the conveyor site:
 - Are there obstructions that may require plow location adjustments
 - Ensure proper clearance is available between topside and return side belts (5” / 150mm)

Installation Instructions - RDP1 Diagonal Plow



Locating the Plow

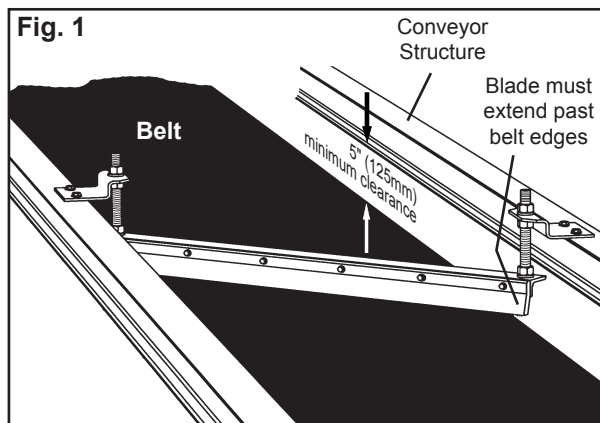
- Ideally the plow should be positioned in a flat area and as close to the tail pulley as possible.
- Requires a minimum of 5" (125mm) vertical clearance between the belt and the structure.
- Can be installed to discharge materials to either side.
- For optimal results the plow should be located about 6" (150mm) behind a flat return roller.



PHYSICALLY LOCK OUT AND TAG THE CONVEYOR AT THE POWER SOURCE BEFORE YOU BEGIN PLOW INSTALLATION.

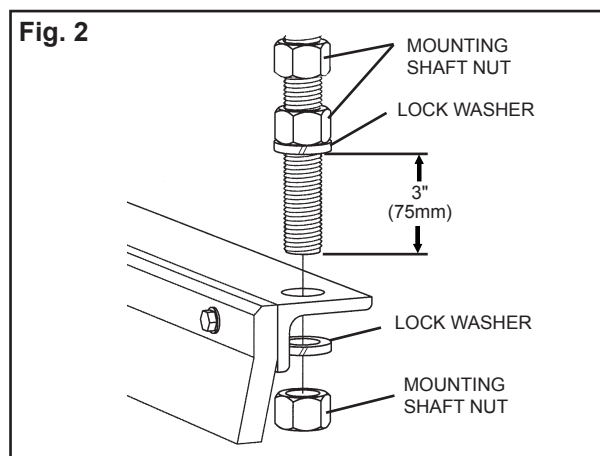
Tools Needed:

- 9/16" (14mm) wrench
- 3/4" (19mm) wrench
- 1 1/2" (38mm) wrench
- Tape Measure



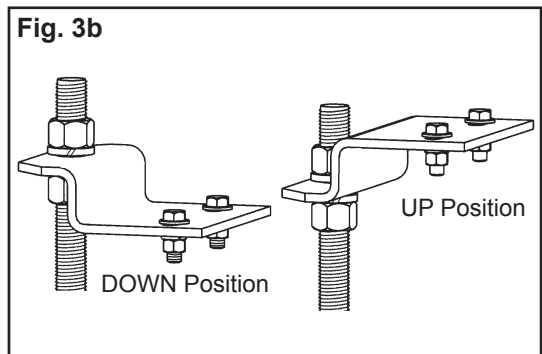
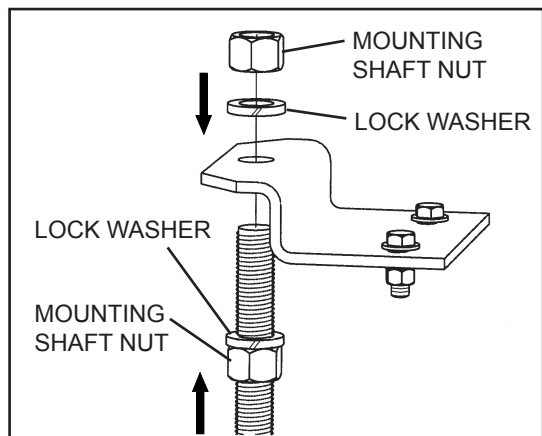
- 1. Position the plow frame on the conveyor.** Slide the plow onto the belt in the selected location. Check for structure interference at both ends where the mounting brackets will be attached to the structure (Fig. 1).

NOTE: The plow frame should generally be installed at a 45° angle; this may vary depending on structure width. Both ends must be positioned past the belt's edges.



- 2. Attach the mounting shaft to the plow frame.** Thread two mounting shaft nuts up the mounting shaft to expose 3" (75mm) of thread past the nut. Next place a lock washer against the lower nut and slide the mounting shaft down through the hole in the plow frame (Fig. 2). From the bottom side of the plow frame place a lock washer and mounting shaft nut on the mounting shaft and tighten. Repeat on opposite side.

Installation Instructions (cont.)



3. **Install the mounting brackets on the mounting shafts.** Put a lock washer onto each mounting shaft and slide the mounting brackets on (Fig. 3a).

NOTE: The mounting bracket is reversible to allow for two mounting options (Fig. 3b). Position the mounting brackets on the structure to allow free vertical movement of the plow frame. Put another lock washer and nut on the shaft and turn down to the mounting bracket. Tighten the top nut on both sides until the plow blade is sitting evenly on the belt. Turn the nut immediately below the bracket up to the bottom of the mounting bracket and tighten, locking the plow in position. Weld or bolt the mounting brackets to the conveyor structure.

4. **Check performance.** Run the belt and check that the plow runs smoothly and has an effective cleaning action. A final adjustment may be required. To raise or lower the unit, adjust the nuts against the mounting bracket up or down.

Pre-Operation Checklist and Testing

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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