

# ***SPEEDMOUNT™***

## ***V-Plow Operation and Maintenance Instructions***



Manufactured by

**Nelson Williams Linings, Inc.**

8330 Jasmine Street

PO Box 476

Mountain Iron, MN 55768

218-741-1080

June 2011

## **WARNING!**

Shut down, lockout and tag out conveyor and related accessories before installing equipment or conveyor accessories, or before working on or near conveyor. Before using cutting torch, welders, grinders or anything that could be an ignition source, make sure there are no flammables in the area and test gas levels and dust content to prevent fire or explosion. Always cover conveyor belt and flammable surfaces with non-flammable fire blanket when cutting, welding, or grinding. Always keep fire extinguisher and/or water hose nearby during cutting or welding. Have someone watch for hot spots or potential fires. Whenever leaving work area, give ample time to make sure there are no hot spots or potential fires.

## ***BEFORE installation***

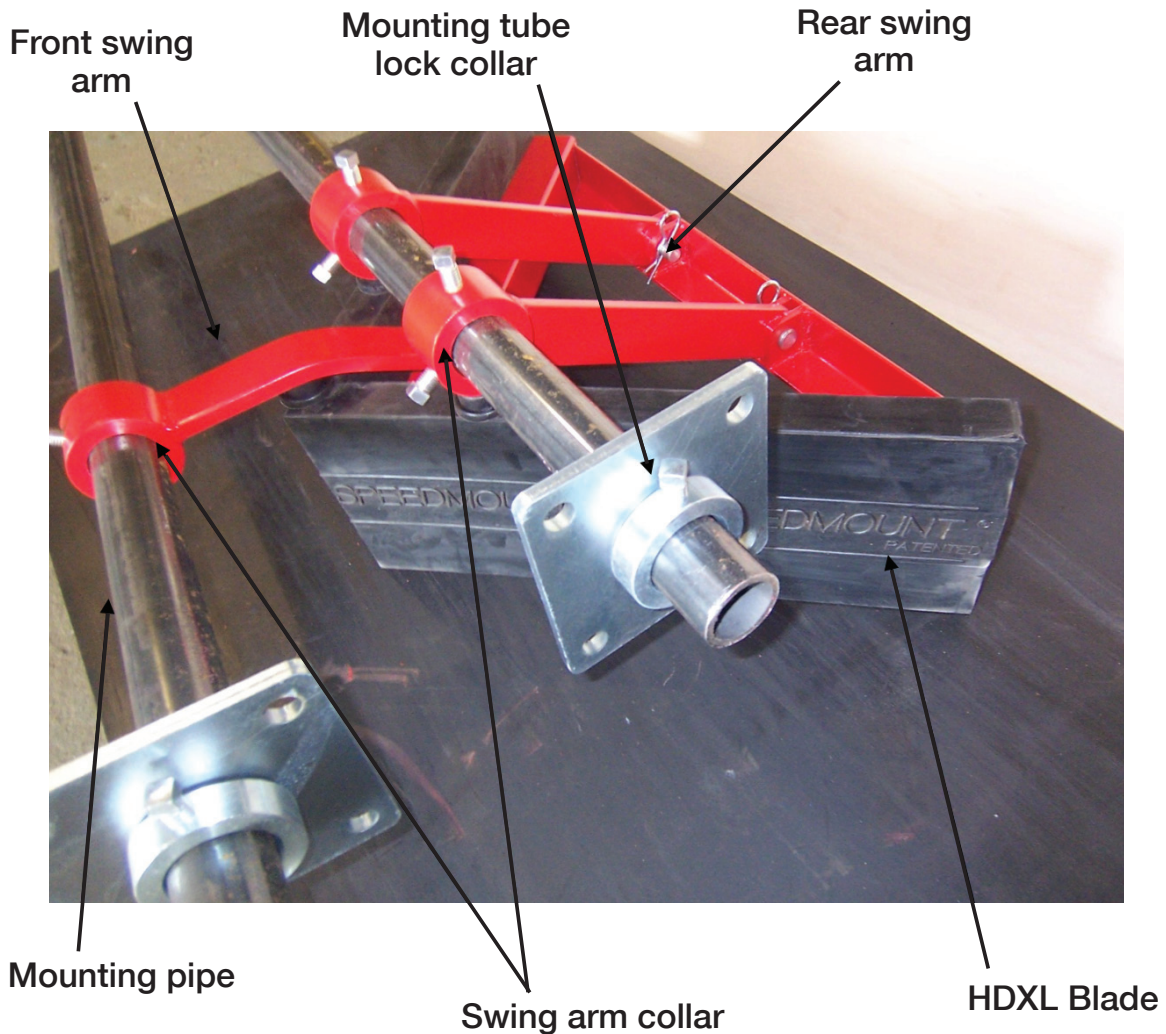
Use extreme caution when working on or near operating conveyor belts and accessories. Body or clothing may be caught or pulled into conveyor or other equipment causing severe injury or death. Before entering a confined space or working in a confined space, make sure employees are trained in confined space procedures and applicable confined space rules and regulations are followed. Always wear hard hat, proper eye protection, safety footwear and other proper safety equipment when working near conveyors and related equipment. Keep work areas clean and always make sure safety guards and emergency stop devices are in proper operating condition. Beware of and correct anything that could cause a slip, trip or fall. Observe all company and government safety rules and regulations applicable when working on or near conveyors and related equipment and accessories.



## ***Observing conveyor before installation***

1. Determine load point(s) and direction of travel
2. Observe conveyor belt tracking. Conveyor must track straight for proper operation of sealing and containment systems. Belt wandering can cause belt to go behind skirting or run against supporting structure and cause damage.
3. Check for proper belt support in loading zone. For optimum performance of conveyor sealing systems, conveyor must not sag under load. Belt sag can cause material leakage and cause entrapment points that can cause premature wear of conveyor belt and accessories.
4. Skirt board structure, chute wall and wear liners should be in good condition. Wear liners should be properly spaced above belt.
5. Material should be loaded onto the center of the conveyor belt, preferably at or near the speed of the conveyor and in the same direction of travel.
6. Conveyor belt and cleaning system should be in good operating condition.
7. Correct any problems for proper operation of conveyor belt.

## ***Parts provided with V-Plow***



# ***INSTRUCTIONS***

## ***SPEEDMOUNT™ Swing Arm V-PLOW***

- Step 1 Select a location just before tail pulley. Plow is to be located on the clean side of belt between troughed run and return run of the belt. Ideal location is from 12 to 48 inches from the tail pulley to properly protect pulley.
- Step 2 Determine location to attach mounting plates to conveyor structure. This location should be decided based on swing of hanger bars. Preferred location will allow front hanger bar to start 2 inches above top of **V-Plow** rubber.
- Step 3 Attach front mounting plates and repeat step 2 for rear mounting plates. Note rear mounting plates should be mounted in the same plane as the front plate to allow full swing of the **V-Plow**.
- Step 4 Center V-Plow on belt. Insert mounting pipes and tighten all swing arm lock collars.

## ***SPEEDMOUNT™ Rear Mount V-Plow***

- Step 1 Select a location just before tail pulley plow is to be located on the clean side of belt between troughed run and return run of the belt. Ideal location is from 12 to 48 inches from the tail pulley to properly protect pulley.
- Step 2 Attach mounting channel 1/2 inch above inside bottom surface of belt to belt stringer perpendicular to belt.
- Step 3 Insert pipe to **V-Plow** and lower complete assembly into mounting channel.
- Step 4 Center **V-Plow** on belt and tighten all lock collars.

## ***Maintenance***

- Step 1    Inspect plow for proper cleaning.
- Step 2    Wash entire **V-Plow** regularly to prevent excessive build up.
- Step 3    Inspect rubber and change as needed.

## ***Replacing of Rubber***

- Step 1    Remove plow from belt.
- Step 2    Use Rubber mallet to remove worn rubber.
- Step 3    Insert new rubber into T slots and tighten with rubber mallet.
- Step 4    Return complete **V-Plow** to belt, center, and tighten.

Manufactured by  
**Nelson Williams Linings, Inc.**  
8330 Jasmine Street  
PO Box 476  
Mountain Iron, MN 55768  
218-741-1080

June 2011