

INSTALLATION INSTRUCTIONS



The Safety Symbol shown is used throughout these instructions to alert you to information about unsafe actions or situations and will be followed by the word **DANGER, WARNING** or **CAUTION**. **DANGER** - indicates immediate hazards that may result in severe injury or death. **WARNING** - indicates unsafe actions or situations that may cause severe injury, death and/or major equipment or property damage. **CAUTION** - indicates unsafe actions or situations that may cause injury and/or minor equipment or property damage.

HYDRAULIC HOSE ROUTING for HYDRAULIC WINCH used on 8" PORTABLE GRAIN PUMPS®

Before beginning assembly it is suggested to read through these instructions and lay out all items from the kit to ensure all parts are accounted for. This not only helps you become familiar with the parts and the assembly procedures, but also makes you aware of what tools, equipment or materials you may need to complete the installation process.

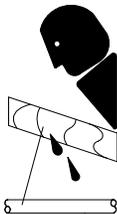
Note: Whenever reference is made to the left, right, front or rear of a conveyor, it is always determined by standing at the hitch (inlet) end looking towards the discharge spout.



CAUTION

Do Not connect or disconnect hydraulic components when there is pressure within the system.

If a leak is suspected, use a piece of cardboard or similar material to check for the leak, *Never use your hands or fingers to search for a leak.*



Escaping hydraulic oil under pressure can have sufficient force to penetrate the skin causing serious injury. If injured by escaping fluid, see a doctor at once, serious infection or reaction can occur if medical treatment is not administered immediately.

Hydraulic oil while flowing through the system becomes very hot during unit operation. To avoid serious burns, allow ample time for the hydraulic system to cool *before* attempting to perform any service or repairs to the system or its components.



Hydraulic Hose Connection

2. Locate the two 90° elbows from the kit. Install the elbow fittings into the ports on the pressure relief valve located on the left-hand side of the winch, See Fig. 1 below. When tight, the fittings should be facing towards the inlet end of the conveyor and slightly angled down (the hoses need to pass under the conveyor tube and will be routed along the right-hand side of the conveyor).
3. Apply Teflon Tape™ or pipe thread sealant to the threaded ends of the hydraulic hoses (use the hose end that has the swivel fitting on it).

Attach the hoses to the 90° elbows and route the hoses under the conveyor tube to the right-hand side of the conveyor. Continue routing the hoses to the inlet end of the conveyor.

Assembly Procedures

1. The 1/2" x 1 1/2" bolts, locknuts and flat washers in this kit are used to mount the winch to the conveyor. Follow the instruction manual included with the Winch Kit for proper installation of the winch. Once the winch has been properly mounted, the hydraulic hoses and fittings can be installed.

To avoid kinking and damaging the hydraulic hoses, do not bend them sharply around corners, allow the hoses to coil in their natural shape when being routed.

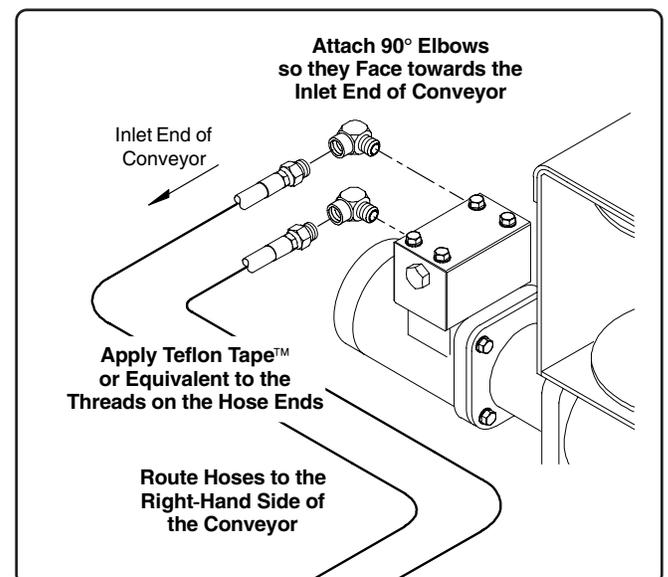


Fig. 1

Hydraulic Hose Connection (con't.)

4. Note the hose clamp mount brackets welded to the bottom right-hand side of the conveyor tubing. Position a hose clamp around the hydraulic hoses as shown below (one clamp facing up, one clamp facing down). Secure each clamp to its mount bracket using one 5/16" x 1" bolt and lock washer.
5. At the boot bearing, remove and retain the lower left locknut. Position the hydraulic hoses behind the clamp bracket and secure the bracket to the bearing bolt using the locknut previously removed.
6. For connection to the tractor, attach the appropriate disconnect fittings to the ends of the hydraulic hoses (**the fittings for the tractor connection are not furnished**). The hose ends are a 1/2" NPT male connection. Make sure to use Teflon Tape™ or pipe thread sealant when attaching the tractor fittings to the hose ends.

