

## **Aluminum Lift Winch**

### **Safety Information:**

This winch is designed for boatlift operations. As with any lift, overloading is both possible and probable. Overloading can cause mechanical failure so it is important to not misuse the winch. It is also important to not use this winch for lifting people.

The winch should run smoothly both directions. If it does not, something is wrong and the lift should not be operated normally until the problem is corrected. Check the winch, cables, idlers, etc. for correct adjustment and lubrication.

Be sure there are at least three turns of cable on the spool of the winch at all times. The cable clamp in the spool cannot hold the entire load by itself.

### **Winch Maintenance:**

Once this winch is adjusted properly, little maintenance is required. However, the chains should be checked regularly to insure proper adjustment and no excessive slack. If the chains are too tight, or there is too much other internal resistance, the effectiveness of the braking mechanism will be impaired. The braking action of the winch depends on the pull of the cable.

This winch is made with materials that resist corrosion. However, care should be given periodically because of the moist environments. The friction disks, or brake pads should be inspected frequently. They should be replaced if they become worn, swelled up, or soft from moisture. Glazing can be removed with fine abrasive paper.

A little oil or grease on the chains and sprockets will prolong the life of the winch as well as help it operate smoothly. The wheel should not be tight on the threads. Watch for corrosion.

### **Operating Instructions:**

When operating the winch, there should be no binding or excessive tightness. When raising the load, the wheel is turned clockwise and there should be a "clicking" sound. Never manually lift the pawl ("clicker") to lower the load. If the winch starts to "free wheel" down, do not try to stop the wheel. Doing so can result in serious personal injury. If something seems wrong or if the winch does not operate properly, do not use the winch until the problem has been corrected. As always, never operate the winch without the shields in place.

When leaving the winch, there should be some load left on the cable so the braking mechanism will remain tight.

### **Instructions for Clamping Cable in Spool for the Cross Bar and Two Screws**

The following is the procedure for properly mounting and clamping the cable into the spool of the lift winch.

Locate the cable slot in the spool inside the bottom of the winch. The spool may have to be positioned such that the slot and the clamp screws are accessible. The recommended way for the cable to be installed is once through the slot, all the way around the hub, and clamped again under the clamp. Thread the cable through the slot and guide it around the hub and insert it along side of the other cable. Leave some extra cable past the clamp. Tighten the clamp with a 5/32 Allen wrench. There should be one more turn of cable on the spool for proper operation. Three turns of cable should be wrapped on the hub before the slack is taken out.

After the first few cycles of operation, a visual inspection of the cable in the cable clamp should be made. Check the two clamp screws for tightness. If there is sign of the cable slipping from the clamp, it may need to be readjusted.

### **Instructions for Clamping Cable in Spool for the Cross Hole and Set Screw**

Turn the winch such that the proper hole size (1/4 or 5/16) is accessible from the bottom of the winch. Insert the cable into the hole and under the set screw such that when the winch is turned clockwise, it will draw the cable on the spool. Align the setscrew with the hole in the outside of the winch for tightening. Use a 5/32 Allen wrench to tighten. Three turns of cable should be wrapped on the hub before the slack is taken out.

## **WINCH WARRANTY**

Lorenz warrants to the original purchaser for a period of one year from the date of purchase all new winches to be free of defects in material and workmanship, but not against damage caused by negligence, abuse or misuse when such winches are used on or in conjunction with applications that have not been approved by our engineering department. Our obligations and liabilities under this warranty shall be limited to replacing or repairing such parts if found upon inspection by us to be defective.

Lorenz will not be liable for incidental, consequential or contingent damages of any kind. We make no warranty whatsoever with respect to component parts or accessories not supplied by us.