



Lorenz Mfg. Co.
185 30th Avenue SE
Benson, MN 56215
888-843-3210
lorenzmfg.com

Crank Winch Nov. 2007

Description: This winch is designed for boat lift operations. It incorporates sprockets and chains for the mechanical advantage required to lift the load. It is normally attached to the lift post, drawing the cable into the bottom of the winch. The braking mechanism uses a ratchet and pawl with brake pad washers to hold the load. This brake system relies on a load present to stay tight. Therefore, tension must always be left on the cable to ensure proper operation of the brake mechanism.

Safety Precautions: **IMPORTANT!**

- **Read and understand this information sheet before operating the equipment.** A good understanding of the correct operating procedures can prevent serious injury to yourself and others.
- It is the responsibility of the owner to ensure that the operator has read and understands these instructions. Anyone who has not read or does not understand these instructions, must not be allowed to operate the equipment.
- The equipment must be operated in a safe and stable manner. Abusing or overloading the equipment in any way can cause serious injury or death. Do not allow riders.
- While operating, be alert to others in the area of operation, and keep the winch and lift area clear.
- When making repairs, adjustments, or performing maintenance on the equipment, remove the load first.
- Do not operate the equipment without all shields in place. If a shield needs to be removed for repairs or maintenance, replace the shield before use.
- Do not alter the design of the equipment. Altering the design will void the warranty and may overload the equipment and/or cause injury to the operator or bystanders. Do not use the equipment for any other purpose other than what it was intended for.
- Do not use the equipment for lifting people.
- Do not use lift for routine maintenance of boat or other equipment. Remove the boat from the lift when performing any repairs, cleaning, exterior care, etc. Never occupy the space under or near the boat and/or lift area.



The safety decals affixed to this winch indicate hazard areas and shall be kept clean and legible at all times. If a safety decal has been removed or damaged, contact the factory for a replacement at no cost.

LORENZ WINCH WARRANTY REGISTRATION

Please fill out the form below and return to LMC upon installing the equipment.

Customer information: Please print

Full Name	
Address	
City, State, Zip Code	Phone Number ()

Equipment information:

Winch Model (check one) 1800 <input type="checkbox"/> 2500 <input type="checkbox"/> 3500 <input type="checkbox"/> 4000 <input type="checkbox"/> 5000 <input type="checkbox"/> 7000 <input type="checkbox"/>	Winch Serial Number	Cable Size	Lift Size (or Capacity)	<input type="checkbox"/> Cantilever <input type="checkbox"/> Vertical
	Boat Weight Dry <input type="checkbox"/> Fully loaded <input type="checkbox"/>		Boat Make/Model	Date of Installation
Dealer (Name, City, State)			Winch Location (Lake Name, City, State)	

Warranty Policy

Lorenz warrants to the original purchaser for a period of one year from the date of installation/purchase all new winches to be free from defects in material and workmanship. Winch warranty will be activated when the warranty registration form has been completed and returned to Lorenz Mfg., either by mail, fax or online. See the Warranty Registration Form for details.

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

Warranty on winch is void if unapproved alterations and/or attachments have been performed to the winch. This warranty does not cover damage resulting from misuse, abuse, overloading, and/or negligence of the operator. Warranty does not cover damage to other products not produced by us. Our obligation and liabilities of this warranty shall be limited to repairing or replacing such parts if found upon inspection by us to be defective. This warranty covers the winch itself. Hand wheels, cable, other lift components, etc., are not covered under this warranty.

Lorenz is not obligated to reimburse charges for transportation or shipping charges incurred to repair or replace winches or parts. Lorenz will not accept invoices for service, labor, shipping or other expenses that have not been previously approved and/or authorized. Lorenz also will not accept 'COD' charges or returns on defective parts without the proper return authorization number.

To request warranty or to return parts, fill out the warranty request form supplied with the winch and return to Lorenz via mail, fax, or online (www.lorenzmfg.com/warrantyreq.htm). An RA number will be issued for tracking purposes.

By registering this warranty, the owner/operator verifies and agrees to have read, understand, and will follow all safety rules and correct operation outlined in the operator manual supplied with the winch.

Owner/Operator's Signature _____

Date _____

Return this form to:
Lorenz Mfg. Co.
PO Box 127
Benson MN 56215

You may also register online or by fax. Go to www.lorenzmfg.com and click on "Registration". To register by fax, send this completed form to (320) 843-4383

Lorenz Mfg. Co.
 PO Box 127
 Benson MN 56215

1st
 CLASS
 POSTAGE

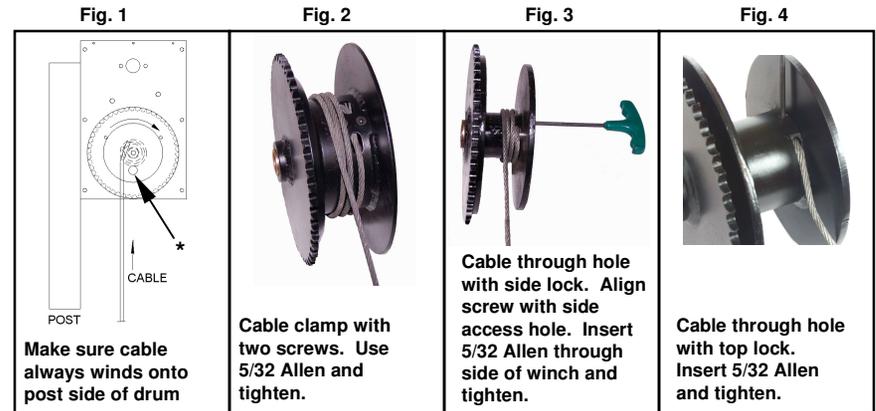
Lorenz Mfg. Co.
 PO Box 127
 Benson MN 56215

Mounting the Cable to the Spool:

Cable Clamp with Two Bolts: 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. Insert the cable end into the access hole and between the clamp. Leave some extra cable past the clamp. Tighten the clamp with a 5/32 Allen wrench. Three turns of cable should be wrapped on the hub before the slack is taken out. Never rely on the cable clamp to hold the load. See Figure 2 below.

Cross Hole with One Set Screw: Turn the winch such that the cable hole 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 set screw 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. Never rely on the cable clamp to hold the load. See Figure 3 below. Figure 4 below shows the spool type with the set screw clamping the top of the cable.

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 have to be readjusted.



* Cable clamp access hole. Align hole in spool to access clamp (4000, 5000, 7000).

Operation:

When operating the winch, there should be no binding or excessive tightness. When raising the load, the wheel is turned clockwise. If the winch has a patented pawl lifter (silencer), there will be no "clicking" in either direction. If there is no pawl lifter, there will be a "clicking" sound in the up direction. 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.

Maintenance:

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.

CUT HERE

TAPE HERE