



CD7000 BOAT LIFT WINCH



WARNING READ INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO INSTALL, OPERATE OR SERVICE THIS WINCH. FAILURE TO COMPLY WITH INSTRUCTIONS COULD RESULT IN SERIOUS OR FATAL INJURY. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.



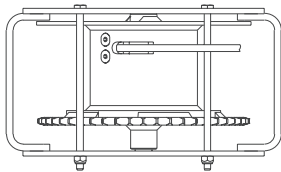
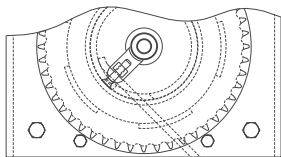
IMPORTANT SAFETY INFORMATION

- This brake winch is built for raising and lowering boat lifts and other similar applications. It is not to be used as a hoist for lifting, supporting or transporting people, or for loads over areas where people could be present.
- Respect this winch. High forces are created when using a winch, creating potential safety hazards. It should be operated and maintained in accordance with instructions. Never allow children or anyone who is not familiar with the operation of the winch to use it. A winch accident could result in personal injury.
- Check winch for proper operation on each use. Do not use if damaged. Seek immediate repairs.
- Never exceed rated capacity. Excess load may cause premature failure and could result in serious personal injury. The CD7000 is rated to pull 3500 lbs. single line and 7000 lbs. double line on the second layer of cable. Using more layers of cable increases the load on the winch.
- Never apply load on winch with cable fully extended. Keep at least two full turns of cable on the reel. Check cable on every use. Replace at first sign of kinks, broken wires, deformation or any other damage.
- Secure load properly. When winching operation is complete, do not depend on winch alone to support load.

ASSEMBLY – The crank wheel and hub for this winch are not made by Dutton-Lainson Company, so check the following to ensure trouble free operation. The side of the hub that contacts the brake lining plate must have a counterbore that is at least 1/8" deep before the threads begin. Thread the crank wheel onto the drive shaft and make sure the wheel threads on freely without any binding. Thread the wheel all the way onto the shaft and ensure the shaft sticks out past the hub by at least 1/16". Install the washer and bolt onto the end of the shaft. The winch should make a clicking noise when the crank wheel is turned clockwise. See parts drawing for details.

WINCH MOUNTING AND CABLE ATTACHMENT

– Mount the winch using two 3/8" Grade 8 bolts, washers, lock washers, and nuts. Winch may be mounted on either side depending on the application. To attach cable, turn wheel clockwise until cap screws and slot are accessible through bottom of winch. Using 5/32" hex key, loosen cap screws and insert end of cable through slot between the cable clamp and inside of reel hub. Tighten cap screws to secure cable. Keep two wraps of cable on drum before applying load.



OPERATING INSTRUCTIONS – Wind cable onto winch reel by turning crank wheel in clockwise direction. This should produce a loud, sharp, clicking noise. The load will remain in position when the wheel is released. Wind cable off the winch reel by turning the wheel counterclockwise (no noise will be produced). The load will remain in position when the wheel is released, but for extra security it is recommended that the wheel be turned clockwise until at least two clicks are heard. This will add extra tightness to the brake mechanism. Always satisfy yourself that the winch is holding the load before releasing the crank wheel.

CAUTION! Once the load has been lowered to the desired position, continuing to wind cable off the drum may result in the cable becoming tangled or may allow the cable to wind on the drum in the wrong direction. Lifting a load by turning the crank wheel in the counterclockwise direction could result in dropping the load. The brake only works when the load is raised by turning the crank wheel in the clockwise direction.

NOT FOR MOVEMENT OF HUMAN BEINGS

MOTOR DRIVES – Operating the winch with a motor drive may result in accelerated wear and reduced winch life. Dutton-Lainson Company is not responsible for issues that are the result of operating the winch with a motor drive.

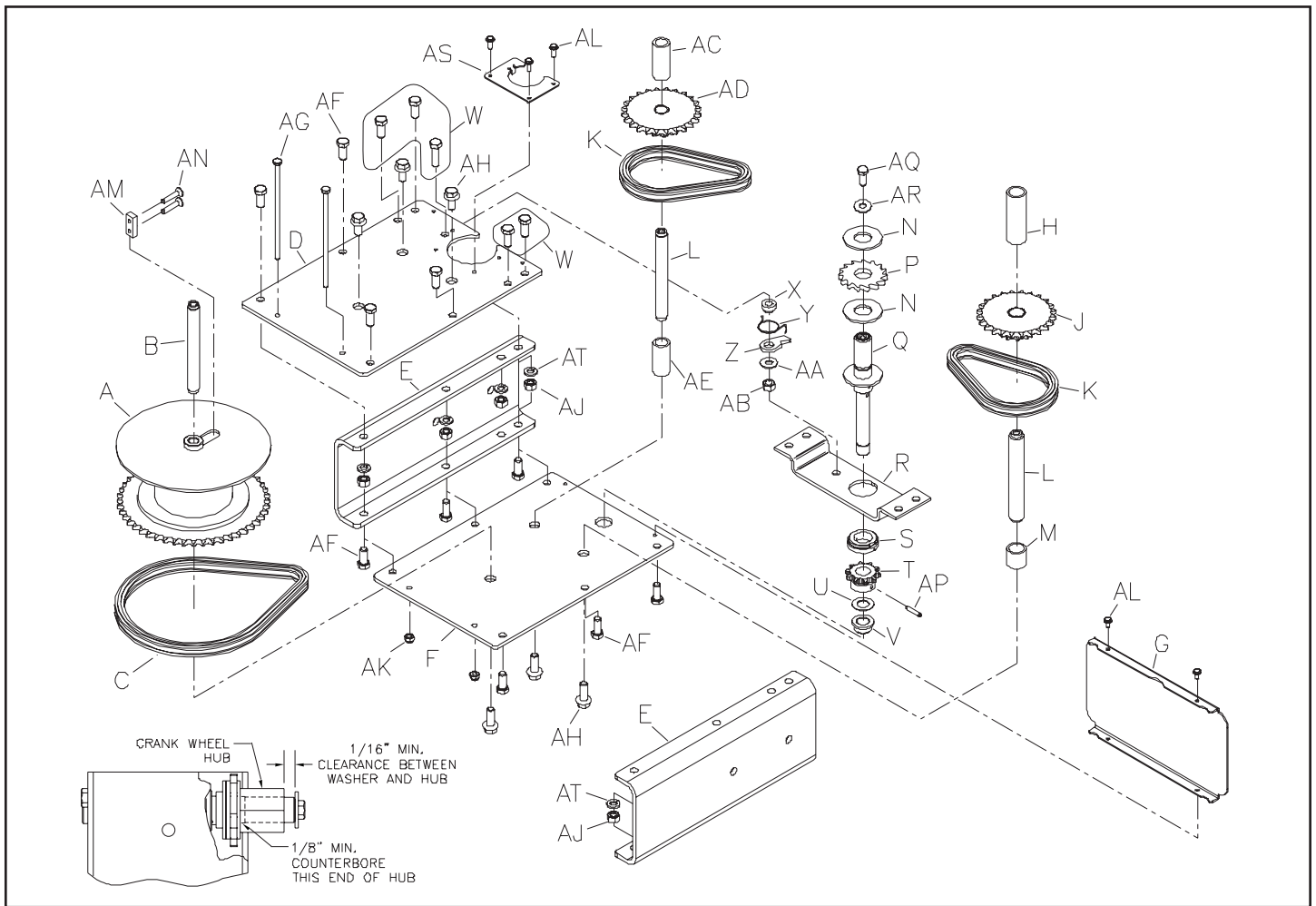
WARNING! A motor drive may overpower the winch and/or cable and could result in damage or personal injury.

WINCH MAINTENANCE – Keep winch in good working order. Damaged or severely worn parts create unnecessary dangers and could result in personal injury or property damage. The winch requires periodic maintenance. The following check should be made at least once annually and more frequently when the winch is exposed to an environment which is particularly dirty or wet.

1. Remove all load from the winch so there is slack in the cable. Remove the top cover from the winch and examine the winch gear train and brake mechanism for any rust, corrosion, or buildup of debris which might be present.
2. Inspect links on all roller chains and replace if there are any cracked or missing rollers. Apply oil to roller chains with a brush or oil can. Oil each link between the pin and bushing and the link side plates. Apply a drop of oil at ends of bushings on intermediate sprocket assemblies and to bushings on primary drive shaft.
- CAUTION!** Do not grease or oil any of the brake mechanism parts.
3. If needed, remove brake components. Remove the bolt and washer from the end of the drive shaft and unthread the crank wheel off the shaft by turning it counterclockwise. Remove the brake cover by removing the three screws holding the cover to the front base plate. Pull the ratchet pawl out of engagement with the ratchet wheel and slide the brake lining plates and ratchet wheel off the drive shaft.

4. Check the ratchet wheel, brake lining plates, crank wheel hub and the washer on drive shaft assembly for any build up or glaze (shiny spots) which may be present. This can be removed by rubbing these parts lightly with sand paper.
5. Holding tension in the ratchet pawl, reinstall the first brake lining plate, ratchet wheel, and second brake lining plate onto the drive shaft. Assemble the brake cover onto the winch with the three screws. Apply a light coating of wheel bearing grease to the drive shaft threads and thread the crank wheel onto the shaft by turning it clockwise. Install the washer and bolt onto the end of the shaft. Make sure the winch is making a clicking sound when turning the crank wheel clockwise.
6. Check the mounting of the winch to be sure that it is secure and check the cable for any abnormal stiffness, kinking or broken strands. Replace the winch cable at the first sign of damage. **NOTE:** Winch cable will last longer and remain more flexible with occasional application of light oil. The winch finish can be protected and will provide longer service if it is washed with water and then wiped with light oil or wax.

If you have any questions whatsoever concerning the above procedure, please contact the manufacturer.



Ref.	Description	Part No.	Ref.	Description	Part No.
A	Reel Assy	306290	X	Ratchet Spacer	406171
B	Spacer Shaft, 5/8"	406169	Y	Ratchet Spring	204363
C	Roller Chain, 46L	206738	Z	Ratchet Pawl	404409
D	Front Base Plate	206838	AA	Washer, 3/8"	205055
E	Side Base Plate	406269	AB	Lock Nut, 3/8"	204803
F	Back Base Plate	206839	AC	Spacer	406212
G	Top Cover	406166	AD	Sprocket Assy, 32T, 11T	306346
H	Spacer	406180	AE	Spacer	406211
J	Sprocket Assy, 28T, 10T	306297	AF	Cap Screw, 3/8, 1"	206782
K	Roller Chain, 38L	206737	AG	Cap Screw, 1/4, 6"	206787
L	Spacer Shaft, 3/4"	406170	AH	Hex Flange Bolt, 3/8"	206779
M	Spacer	406179	AJ	Brass Nut, 3/8"	206784
N	Pressure Plate	205123	AK	Lock Nut, 1/4"	206780
P	Ratchet Wheel	404408	AL	Cover Screw	206781
Q	Primary Drive Shaft	306275	AM	Cable Clamp	406168
R	Bearing Support Plate	406167	AN	Flat Head Cap Screw, 1/4"	206682
S	Iron Bushing	206372	AP	Roll Pin	203963
T	Sprocket, 10T	406164	AQ	Cap Screw, 5/16, 1/2"	205118
U	Washer, 5/8"	205139	AR	Washer, 5/16"	205119
V	Bronze Bushing	206686	AS	Brake Cover	406184
W	Cap Screw, 3/8, 1-1/4"	206786	AT	Lock Washer, 3/8"	206783



A Dependable Company Since 1886
DUTTON-LAINSON COMPANY
 Hastings, NE 68902 U.S.A. • Tel 402-462-4141 • Fax 402-460-4612
 www.dutton-lainson.com • E-mail: dlsales@dutton-lainson.com

MADE IN
U.S.A.