Grizzly Industrial, Inc.®

WWW.GRIZZLY.COM

RATCHET HOISTS

MODELS G8709 TO G8711

INSTRUCTION SHEET

NOVEMBER, 1999 PRINTED IN CHINA.

INTRODUCTION

Thank you for your purchase of a Grizzly Ratchet Hoist. We are confident you will find this Hoist to be extremely useful for your lifting and material movement needs. Ratchet hoists are especially useful in situations where no power supply is available. Whether you use it on the farm, the construction site, the dock, the basement or the garage, you will find the mechanical advantage your Ratchet Hoist provides will be a great benefit.

Ratchet Hoists must be used in a safe manner, and we strongly urge you to review the safety warnings contained in this manual and on the product label before using this device. When used safely and when properly maintained, you can expect years of trouble-free, enjoyable operation.

Refer to the table below to verify the operating characteristics of the specific Model you purchased. The Model number appears on the label on the side of the gear block body. Be sure you understand the capacity and lift dimension requirements of your particular unit before using it.

Grizzly stands behind the products it sells. If you have any service questions or parts requests, please call or write us at the location listed below.

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	G8709	G8710	G8711
Capacity (tons)	3/4	1.5	3
Lift (in)	59"	59"	59"
Force to Lift Full Load (lb)	36	47	43
# Load Chain Fall Lines	1	1	1
Load Chain Dia (in)	15/64"	15/64"	5/16"
Net weight (lbs)	16	16	24

Ratchet Hoist Specifications

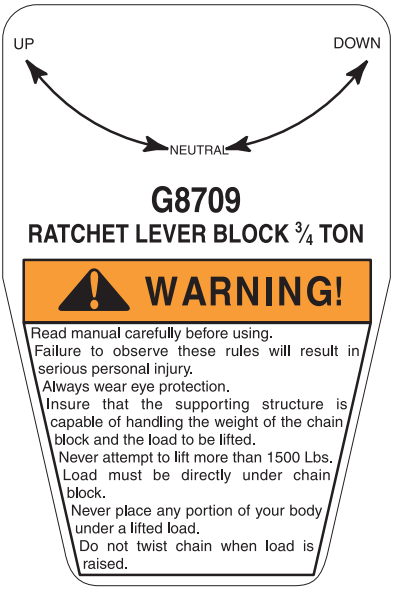
⚠WARNING

Safety Instructions For Ratchet Hoists

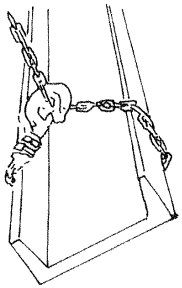
Operating a Ratchet Hoist can be dangerous if not used properly. Your Hoist has a warning label affixed similar to that shown below. Please take a few moments to familiarize yourself with the warnings it describes.

In addition, please refer to the warnings displayed on the opposite page as well as the additional warnings described here:

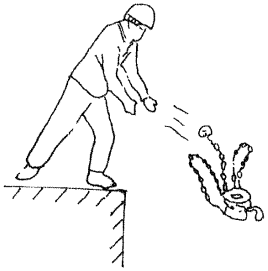
1. Never use a motor or other mechanical device to lift the load. The Ratchet Hoist is designed to be comfortable for a person to lift using hand power.
2. Before lifting, inspect the hooks to make certain they are securely attached. Also verify the safety catch is operating.
3. Periodically inspect the hook and chain to verify that the metal displays no cracking or other signs of potential failure.
4. Never allow the hoist operator or other personnel to pass underneath a suspended load.
5. When lifting or lowering, the ratchet lever should be pulled steadily to avoid jerking or tangling of the chains.
6. If the ratchet lever should ever seem to require excessive force, check for the following:
   a) Is the load over the rated capacity of the hoist?
   b) Is anything entangled in the load?
   c) Are the chains blocked or trapped on something?



Additional Safety Instruction Tips

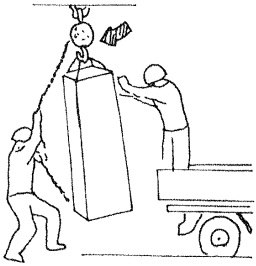


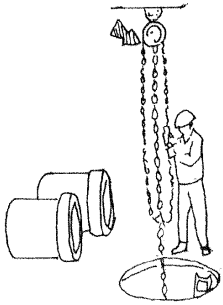
Do Not Lift Load
With Hook Linked
To Load Chain



Do Not Mishandle
Hoist Assembly

Do Not Allow Hook
To Become Twisted
Around Chain





Do Not Exceed the Maximum Lifting Or Lowering Height

OPERATION

1. Secure the swivel hook which is directly attached to the ratchet body to a structurally sound overhead beam or other solid structure which is capable of handling the weight to be lifted. The hoist can be mounted to a beam trolley if the capacity of the trolley system is equal to or greater than the anticipated load.
2. Position the load directly under the chain hoist. Flip the lever on the ratchet handle to the neutral ("N") position. This allows the chain to be freely moved through the block by either pulling on the chain or turning the handwheel. Pull enough chain to allow connection of the load hook to the item. Positioning the hook on the load may require lifting straps or chains if a suitable lifting device is not incorporated on the load (e.g. an eye bolt). Never wrap the hoist's lifting chain around the load. Always use a separate set of straps or chains which should then be connected to the load hook. Be sure the load chain is not twisted or entangled in the lifting chain.
3. Eliminate any slack in the chain between the ratchet body and the load. Switch the lever to the "UP" position. Pull on the ratchet lever with successive strokes and the load will begin to rise. Inspect the load chain and hook position to make sure it will stay properly positioned as the lifting continues.
4. Continue pulling the ratchet lever back and forth until the load is raised.
5. Move the truck or pallet you are placing the item on under the raised load. If the Hoist is attached to a travelling trolley system, move the load slowly and carefully, making sure that no one passes beneath the load as it traverses.
6. When the load is positioned as desired, switch the lever to the "DOWN" position again by cranking the ratchet lever. The load will go down. Make certain that the lifting chain is free to travel through the ratchet body and can not get caught on any obstruction.
7. When the tension on the load chain is off, release the load chain.

⚠WARNING

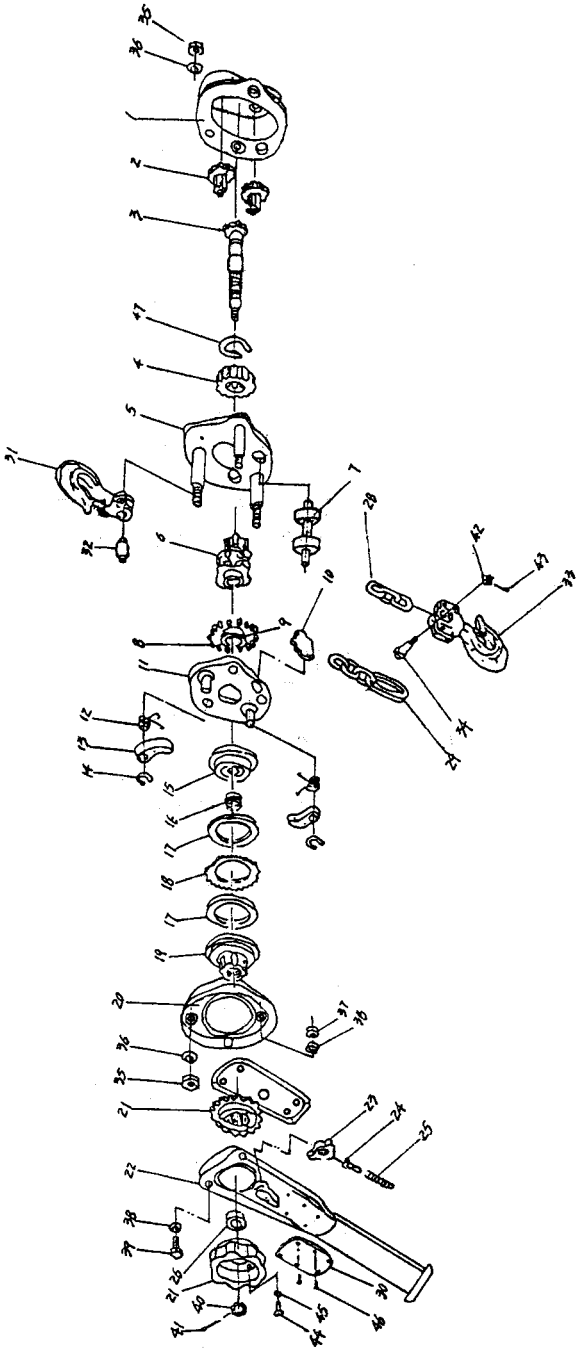
Maintain control of the raised load at all times. If traversing the load on a trolley system, be sure the load does not begin to swing back and forth. Never let any portion of the operator's body, or other personnel, come between the raised load and the floor. Severe crushing injury or death can occur if the load should fall. Always be sure to observe the load limits of your hoist as well as the support structure and any device you are putting the load onto.

MAINTENANCE

1. Clean any dirt off of the lift and load chains and ratchet block to avoid having any foreign material potentially interfere with the brake and ratchet system.
2. Periodic lubrication with a light grease on the gears inside the ratchet block will ensure free and smooth operation. Grease can be applied with a scrap piece of wood through the opening in the bottom of the ratchet block.
3. Generally disassembly of the ratchet block mechanism should never be required. If it should become necessary, this maintenance should be performed by a skilled service technician who is familiar with these types of lifting devices.
4. **If the device is disassembled for servicing, be sure to check the hoist with a light load to be sure the brake mechanism is properly holding the lifted load. If it appears okay with a light load, move to a load at its maximum capacity and perform the same check.**

⚠WARNING

Disassembly and improper reassembly of this device can result in the braking or locking mechanisms not working properly. Loads may not stay suspended and might cause a crushing injury. Always have this device serviced by a qualified repair technician. Serious injury will result.



PARTS LIST - RATCHET HOIST

Ref. #	Description
001	Gear Case Assembly
002	Disk Gear Assembly
003	Drive Shaft
004	Splined Gear
005	Gear Side Plate Assembly
006	Load Sheave
007	Guide Plate
008	Roller
009	Bearing Race
010	Stripper
011	Lever Side Plate Assembly
012	Pawl Spring
013	Pawl
014	Snap Ring
015	Disk Hub
016	Free Spring
017	Friction Disk
018	Ratchet Disk
019	Threaded Disk
020	Brake Cover Assembly
021	Changeover Gear
022	Lever Handle Assembly
023	Changeover Pawl
024	Spring Seat
025	Changeover Spring

Ref. #	Description
026	Bushing
027	Hand Wheel
028	Load Chain
029	Chain Ring
030	Name Plate
031	Top Hook Assembly
032	Top Hook Shaft
033	Bottom Hook Assembly
034	Chain Pin
035	Hex Nut
036	Lock Washer
037	Hex Nut
038	Lock Washer
039	Screw
040	Castle Nut
041	Split Pin
042	Castle Nut
043	Split Pin
044	Screw
045	Lock Washer
046	Rivet
047	Snap Ring