



6000-Lb. Capacity Lever Chain Hoist

OWNER'S MANUAL



WARNING: Read carefully and understand all **INSTRUCTIONS** before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

Item #142252

Thank you very much for choosing a NORTHERN TOOL + EQUIPMENT CO., INC. Product! For future reference, please complete the owner's record below:

Model: _____ Purchase Date: _____

Save the receipt, warranty and these instructions. It is important that you read the entire manual to become familiar with this product before you begin using it.

This machine is designed for certain applications only. Northern Tool + Equipment cannot be responsible for issues arising from modification. We strongly recommend this machine is not modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, DO NOT use the machine until you have first contacted Northern Tool + Equipment to determine if it can or should be performed on the product.

For technical questions please call **1-800-222-5381**.

CONSTRUCTION

Lever Chain Hoist is equipped with a transmission mechanism of two-step gears with a spring clutch system. Its main principle of operation is described as follows:

Use of Free Gearing System

Prior to use (when hooking nothing), the selector lever (#40) is set to the "C" (central) position. The spring disengages the clutch, allowing the load chain (#25) to be pulled easily and the load hook (#50) to be adjusted to any desired position.

APPLICATION

Lever Chain Hoist is a highly efficient and versatile hand-operated hoisting appliance, capable of being widely applied in shipbuilding, power plants, transport, construction sites, mines, post and telecommunication for installing machines, lifting goods, dragging loads, etc., It is particularly used in narrow places, the outdoors and overhead places for pulling and stretching work at any angle.

SAFETY

1. Keep work area clean and well lit.
2. Keep children and bystanders out of work area when operating the hoist.
3. Stay alert, use common sense, watch what you are doing and do not use the hoist when under the influence of drugs, alcohol or medication.
4. Use the hoist safely. Never use the hoist to lift people. Never work underneath a suspended load. Never leave a suspended load unattended. Never jostle or twist a suspended load.
5. Be aware of dynamic loading. Suddenly dropping or swinging the load may create forces in excess of the hoist capacity, which can cause product failure.
6. Never wrap chain around load, or use the chain as a sling.



WARNING: Do not use the hoist if there is any damage or if the hoist is not operating smoothly as intended.

OPERATION

Lifting Load

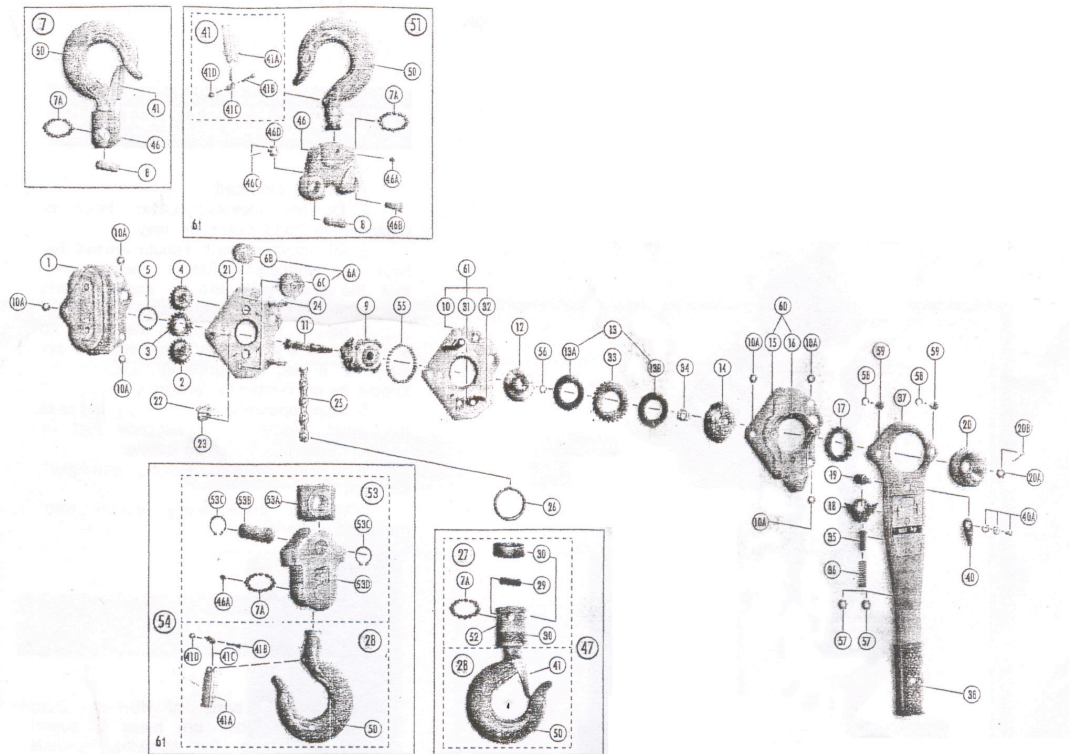
Set the selector lever to the “UP” position and turn the lever handle (#37) to the right, which presses the friction plate (#13) and ratchet disk (#33) tightly against the brake seat (#12), causing these parts to rotate in unison. Then drive the driving shaft (#11), disk gear (#2), pinion shaft (#4), splined gear (#3), load chain and the lever handle to lift the load smoothly.

1. Make sure hoist is attached to a suitable support capable of holding fully loaded hoist.
2. Do not exceed the maximum capacity of 6000 lbs. (2722 kg).
3. Do not motorize — Lever Hoist is designed for manual (hand) operation only
4. All moving parts should always be kept well lubricated. Before operating, see that the various parts are not damaged, and idle motion is in good condition
5. Before lifting, inspect the hook to see whether it is securely attached. Do not suspend a load from the hook tip. Load chain should not be twisted to ensure safety.
6. Stop operating immediately in the event the lever handle force exceeds that of normal operation. Check as follows:
 - (a) Whether there is anything entangled with the load.
 - (b) Whether there is any trouble with the parts of the hoist.

MAINTENANCE

1. After use, clean off the dirt on the hoist and grease its parts. Keep it in a dry place.
2. Maintenance and inspection should be made by an authorized service technician. Never allow anyone not familiar with hoist maintenance to disassemble or assemble the block.
3. When assembling, align the “0” marks of two gears (#2).
4. While the lever handle (#37) is pressing the friction plated (#13) and the ratchet disk (#33), the distance between the lever handle and the ends of hexagon-slotted nut should be maintained within 0.2mm–0.5mm.
5. After cleaning and repairing, safely test the hoist to ensure proper function and operation. Make sure that the hoist is in excellent working order before lifting any type of load.

Diagram



Parts List

No.	DESCRIPTION	No.	DESCRIPTION
1	Gear Case	26	Chain End Link
2	Disk Gear	29	Chain Pin
3	Splined Gear	30	Ring
4	Pinion Shaft	33	Ratchet Disk
5	Snap Ring	34	Brake Spring
7A	Ball bearing for top /load hook	35	Spring Shaft
8	Top Pin	36	Chang-over Spring
9	Chain Sprocket	37	Lever Handle
10A	Hexagon Nut	38	Handle Rubber Grip
11	Driving Shaft	40	Select Lever
12	Brake Seat	40A	Screw For Select Lever
14	Female thread disk	46	Top Hook Holder
17	Change-over wheel	46A	Grub Screw
18	Change-over pawl	46B	Bolt
19	Selector lever pin	46C	Split Pin
20	Free knob	46D	Castle Nut
20A	Castle nut	50	Top/Load Hook
20B	Split Pin	52	Load Hook Holder

21	Side Plate B	55	Roller Bearing
22	Stripper Pin	56	Snap Ring
23	Stripper Pin	57	Hexagon Nut
24	Stay bolt	58	Washer
25	Load Chain	59	Hexagon Bolt

Complete Parts 0.75T, 1.5T, 3T		Complete Parts 6T	
No.	Description	No.	Description
6A	Guide Roller	6A	Guide Roller
7	Top Hook Assy., No. 7A, 8, 41, 46, 50	13	Friction plates assy., No. 13A, 13B
13	Friction plates assy., 13A, 13B	No.	28
27	Bottom Hook Block Assy., No. 7A, 29, 30, 52	41	Hook Assy., No. 41,50
28	Hook Assy., No. 41, 50	41	Safety latch assy., No. 41A, 41B, 41C, 41D
41	Safety latch assy., 41A, 41B, 41C, 41D	51	Top Hook with holder assy., No. 7A, 8, 41, 46, 46A, 46B, 46C, 4 6D, 50
47	Load Hook with holder Assy., No. 27, 28	53	Bottom Hook block assy., No.7A, 46A, 53A, 53B, 53C, 53D
60	Brake cover with handle casing assy., NO. 15, 16	54	Load Hook with holder assy., No. 28, 53
61	Side Plate A assy., 10, 31, 32	60	Brake cover with handle casing assy., NO. 15, 16
	No.	61	Side Plate A assy., No. 10, 31,32

For technical questions please call **1-800-222-5381**.

WARRANTY

One-Year Limited Warranty



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 Made in China